

Thu - Apr

D**b** 241 TTTGATTCTGCCGTAA

QY	301	TGCTTACTTTATTCGCTCTCTCTTTTACCCTTTCCAGCTAAAAAATCTTTCGCTATTCAAT	360	1381	CGCCAGTCTGTTTCAGAACAGGTGAAAGACTGCGATTCTTTGAAACAGATAGTTTCAACTA	1440
DB	301	TGCTTACTTTATTCGCTCTCTCTTTTACCCTTTCCAGCTAAAAAATCTTTCGCTATTCAAT	360	1381	CGCCAGTCTGTTTCAGAACAGGTGAAAGACTGCGATTCTTTGAAACAGATAGTTTCAACTA	1440
QY	361	GTGTTTCTCGTTTGTGTTGATGAGAAAAATATCTGACAAAAATCATTTATTCGATTTTAT	420	1441	CTGGACATGAAATCTCCAGAGCCGAAATCTGACAAAGATATGACAGAGCAATATGGACTCGT	1500
DB	361	GTGTTTCTCGTTTGTGTTGATGAGAAAAATATCTGACAAAAATCATTTATTCGATTTTAT	420	1441	CTGGACATGAAATCTCCAGAGCCGAAATCTGACAAAGATATGACAGAGCAATATGGACTCGT	1500
QY	421	GGTCAGATCTTAGTTAAATGTCGCCCTCTCTAACCAAGTCAGATTAAAAAGGAGTGTTTC	480	1501	CTGCTGTTAATGCGACGGAAAGCTACTGAAACAAAATGATGGCAGCAGACAAGATGTTCTCG	1560
DB	421	GGTCAGATCTTAGTTAAATGTCGCCCTCTCTAACCAAGTCAGATTAAAAAGGAGTGTTTC	480	1501	CTGCTGTTAATGCGACGGAAAGCTACTGAAACAAAATGATGGCAGCAGACAAGATGTTCTCG	1560
QY	481	GTCCATGTTGCTTTGTTTGGTGTTCGAGAGAGTTTTTCGAGAGTTAGTGAGTGTTAT	540	1561	AGTTCCAGCTTTAAACAAAATCTCTCAGCAGAAACCTCCAAAGAGGAAAAGAGTTTCATGTC	1620
DB	481	GTCCATGTTGCTTTGTTTGGTGTTCGAGAGAGTTTTTCGAGAGTTAGTGAGTGTTAT	540	1561	AGTTCCAGCTTTAAACAAAATCTCTCAGCAGAAACCTCCAAAGAGGAAAAGAGTTTCATGTC	1620
QY	541	TTGGGGTGAGTGATGATTAAGTTTGAAGGGGAGTGATTCATCAAGTGTTGTTATGAAATT	600	1621	CCAGGTGCTGTTGGAAGGCAACCTTAAAGAAAGCCACGCAAACTCTCAGAACTTCCCA	1680
DB	541	TTGGGGTGAGTGATGATTAAGTTTGAAGGGGAGTGATTCATCAAGTGTTGTTATGAAATT	600	1621	CCAGGTGCTGTTGGAAGGCAACCTTAAAGAAAGCCACGCAAACTCTCAGAACTTCCCA	1680
QY	601	CSAGGCTGATCCGGGGGATAGATATTTTCGAGTTCTCTTTGGAGATCAAACTCAACAAG	660	1681	AAAGTGTGCTGTTGGAAGGCAACCTTAAAGAAAGCCACGCAAACTCTCAGAACTTCCCA	1740
DB	601	CSAGGCTGATCCGGGGGATAGATATTTTCGAGTTCTCTTTGGAGATCAAACTCAACAAG	660	1681	AAAGTGTGCTGTTGGAAGGCAACCTTAAAGAAAGCCACGCAAACTCTCAGAACTTCCCA	1740
QY	661	AGTTCATGTTGTTGTTGATTCATTTACACCCAAAACCTAGATCAAGTCTCATGGTAG	720	1741	TGAATCTTAAGAAACCGGGAGTGCCAAAAGAGAAAAATTTGAAAGAAATCAGCAACTTAAA	1800
DB	661	AGTTCATGTTGTTGTTGATTCATTTACACCCAAAACCTAGATCAAGTCTCATGGTAG	720	1741	TGAATCTTAAGAAACCGGGAGTGCCAAAAGAGAAAAATTTGAAAGAAATCAGCAACTTAAA	1800
QY	721	ATGAGAGATGATAAACACAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGGG	780	1801	AGCCAGCCAATGTTGGAGATATGAGCAACAAAAGCCCTGAACTCACTCAAAAGTTGCA	1860
DB	721	ATGAGAGATGATAAACACAGGATCTAAATGGGTTTCCAGGTGGTGAATTTGTAGACAGGG	780	1801	AGCCAGCCAATGTTGGAGATATGAGCAACAAAAGCCCTGAACTCACTCAAAAGTTGCA	1860
QY	781	GATTCGCAACACTGTTGGATCATATAGGGTTTTTGATCATGGTGCTCATCAGGGCG	840	1861	GAAAAGCTTTGAAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTT	1920
DB	781	GATTCGCAACACTGTTGGATCATATAGGGTTTTTGATCATGGTGCTCATCAGGGCG	840	1861	GAAAAGCTTTGAAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTT	1920
QY	841	TTACCAACTTAAAGTATGATGATCAATAGCTTAGCGGGATCATGCAACAGCTTGGAGTA	900	1921	CTGAAAATTTGTTCCAGAACAGTAGTGGCGCAACTCTGTTTCTGAGATCAGAGATGCCATTG	1980
DB	841	TTACCAACTTAAAGTATGATGATCAATAGCTTAGCGGGATCATGCAACAGCTTGGAGTA	900	1921	CTGAAAATTTGTTCCAGAACAGTAGTGGCGCAACTCTGTTTCTGAGATCAGAGATGCCATTG	1980
QY	901	ATAGTGAGAGAGATCTTTTGGGAGAGTGAGTGATCTCTCTTTAGCACCAAGTTATCA	960	1981	GTGGAACTAATGTTAGTTTCTGGAATTCAGTGTCACAAATAGACAAGACCAATGGATTGG	2040
DB	901	ATAGTGAGAGAGATCTTTTGGGAGAGTGAGTGATCTCTCTTTAGCACCAAGTTATCA	960	1981	GTGGAACTAATGTTAGTTTCTGGAATTCAGTGTCACAAATAGACAAGACCAATGGATTGG	2040
QY	961	GAAACACCCGGTAAATGTAGAGCCGGTCAATGGAATTTTACTTCAGATGTTGGTATGG	1020	2041	GGGCTATGAAACCCAGCCACTTGAAGTGTCAATGGGAAACCCAGCCAGATATCTACAG	2100
DB	961	GAAACACCCGGTAAATGTAGAGCCGGTCAATGGAATTTTACTTCAGATGTTGGTATGG	1020	2041	GGGCTATGAAACCCAGCCACTTGAAGTGTCAATGGGAAACCCAGCCAGATATCTACAG	2100
QY	1021	TAAATGTTCTTTTACCCAGAGTGGCACTTCTCAGCTGGCTATATAGTTTGAATTTGG	1080	2101	GAGCGAACTGGCCAGAGACCAACCACTGATTTTATGACTAGAAAACCAAGCTTGGCTTCA	2220
DB	1021	TAAATGTTCTTTTACCCAGAGTGGCACTTCTCAGCTGGCTATATAGTTTGAATTTGG	1080	2101	GAGCGAACTGGCCAGAGACCAACCACTGATTTTATGACTAGAAAACCAAGCTTGGCTTCA	2220
QY	1081	ATGACTTGTGAAATCTCTGATCAGATGCTCTCTTTACAGCTTGTGAGTGGTGGGG	1140	2161	TCCAGTGGCAACCCAGAACCCAGTTCCCAATGGGAAACCAACAGCTTGGCTTCA	2280
DB	1081	ATGACTTGTGAAATCTCTGATCAGATGCTCTCTTTACAGCTTGTGAGTGGTGGGG	1140	2161	TCCAGTGGCAACCCAGAACCCAGTTCCCAATGGGAAACCAACAGCTTGGCTTCA	2280
QY	1141	ATAGCTTATTAAGAGTTTGTGATGATCAATCTATTTTCAAGTTTGAATTTTTC	1200	2221	TGAAAAACCAATCTTATTTGGCTTTCCATTTGGTAAACCAAGCTTGGCTTCA	2340
DB	1141	ATAGCTTATTAAGAGTTTGTGATGATCAATCTATTTTCAAGTTTGAATTTTTC	1200	2221	TGAAAAACCAATCTTATTTGGCTTTCCATTTGGTAAACCAAGCTTGGCTTCA	2340
QY	1201	CTTTTCTCCGTTCTTCGAGTACTTACAGTAGAACATGAAATAGAAATCTTAAAGAAAGT	1260	2281	ACAGAGAGCTTCTTGGCCATGGGTAATCAACCACTATGATCTGATAGAACTCCAC	2340
DB	1201	CTTTTCTCCGTTCTTCGAGTACTTACAGTAGAACATGAAATAGAAATCTTAAAGAAAGT	1260	2281	ACAGAGAGCTTCTTGGCCATGGGTAATCAACCACTATGATCTGATAGAACTCCAC	2340
QY	1261	CATGTTTGTGAACAGATGGAACCTCCAGCGTGAACAGGCTCTTTTGAATTTTCA	1320	2341	GGCTGATTTAGTAAGTGGAAACCAAGCTAGGAGTCTCCCAAGGAAACCAAGCGGCTTA	2400
DB	1261	CATGTTTGTGAACAGATGGAACCTCCAGCGTGAACAGGCTCTTTTGAATTTTCA	1320	2341	GGCTGATTTAGTAAGTGGAAACCAAGCTAGGAGTCTCCCAAGGAAACCAAGCGGCTTA	2400
QY	1321	CAATTTAGAGAGAGACAGTGGGTCAGTCTGTGAAAGTTTGGTTCAATATGTACCGTCAA	1380	2401	TATTTTTGAATCACCAGACTTGTTTTACCTGCTGGAAATCAGCTATATGATCACCTACAG	2460











QY 3740 ----- 3739  
Db 7325 AATGATGTTTGTGCAAAATTTTAAATTCACGTAAACCAATTAATATTC 7384  
QY 3740 ----- 3739  
Db 7385 ATAATGCATCTGTGAAGAACAGGTGTGCAATTTATGTTGACAGCTGAATGGTTTATGTC 7444  
QY 3740 ----- 3744  
Db 7445 CTATTAATTTCTTTTACTGCTATAGATGACCAATTTGAACCTTAACGTTTACAGGAGATAGA 7504  
QY 3750 CGTTTTTCGCAATGAAGGGATCGGTGTTGATTCGGTCATTGGAAGTTTCTCTACACAG 3809  
Db 7505 CGTTTTTCGCAATGAAGGGATCGGTGTTGATTCGGTCATTGGAAGTTTCTCTACACAG 7564  
QY 3810 AATGTCCTGGATCACCTTTCA----- 3830  
Db 7565 AATGTCCTGGATCACCTTTCAAGGTATATAGTTGCTTAAATAATTCAGTTTCCAATAACA 7624  
QY 3831 ----- 3830  
Db 7625 TAGAAATTAACCCATGGTGGTTTACAATGCAAGCTCTCGTTTCATGCTCTAGCTGCTCG 7684  
QY 3860 ATTCCTCCAAATTAAGCAGCAGCGGAGAGATGAAGGAATGTTAGAGCGTAGTTGT 3919  
Db 7685 ATTCCTCCAAATTAAGCAGCAGCGGAGAGATGAAGGAATGTTAGAGCGTAGTTGT 7744  
QY 3920 TGAAGATCCAGAGGATGATTTCTGAACTTAAATGAAATTCCTTCGTCGAGGAAAGGT 3979  
Db 7745 TGAAGATCCAGAGGATGATTTCTGAACTTAAATGAAATTCCTTCGTCGAGGAAAGGT 7804  
QY 3980 TCAACATCCATCTGATGGAAGTTTCTGGGTTGATAGTGATCAAAAGAGCAGCTAAG 4039  
Db 7805 TCAACATCCATCTGATGGAAGTTTCTGGGTTGATAGTGATCAAAAGAGCAGCTAAG 7864  
QY 4040 GGACTGTTCAAACTCGGAATGAAGATTTAAATTTCTTAGAGAGATTTCAAAATTT 4099  
Db 7865 GGACTGTTCAAACTCGGAATGAAGATTTAAATTTCTTAGAGAGATTTCAAAATTT 7924  
QY 4100 AGAAGAGAAATTTATCATCAAGATTTCTTTGATCGGCGATTTTTCAGTCTGTGG 4159  
Db 7925 AGAAGAGAAATTTATCATCAAGATTTCTTTGATCGGCGATTTTTCAGTCTGTGG 7984  
QY 4160 GAGAGTTGATCTGTTTATGTTTCAATCAGACGAGATTTCTCAACAGGTGTA 4219  
Db 7985 GAGAGTTGATCTGTTTATGTTTCAATCAGACGAGATTTCTCAACAGGTGTA 8044  
QY 4220 AACAAAACTGTCAGTGAACATCAATCAGTGAACCTGGAGCCCAAACTTGTCTGA 4279  
Db 8045 AACAAAACTGTCAGTGAACATCAATCAGTGAACCTGGAGCCCAAACTTGTCTGA 8104  
QY 4280 TGAATTTGTTCTTCAAGGAATGAGAGACCGCATCTATATGAAGATCTGGTGTGTTCA 4339  
Db 8105 TGAATTTGTTCTTCAAGGAATGAGAGACCGCATCTATATGAAGATCTGGTGTGTTCA 8164  
QY 4340 GAAACAAGAAATCAAAATGTCGCTCAGAAGAACTGATCTTGAAAAAACAATGAATG 4399  
Db 8165 GAAACAAGAAATCAAAATGTCGCTCAGAAGAACTGATCTTGAAAAAACAATGAATG 8224  
QY 4400 GAAAGACTCTGTTGTTGTCAGCAGAAATGATATTAATTTGGCAAACTCCTTC 4459  
Db 8225 GAAAGACTCTGTTGTTGTCAGCAGAAATGATATTAATTTGGCAAACTCCTTC 8284  
QY 4460 CAGCAGCTATGAGCAGTGTGCGACTCGACGACCATGCTACTAGACATAGAGATTTGG 4519  
Db 8285 CAGCAGCTATGAGCAGTGTGCGACTCGACGACCATGCTACTAGACATAGAGATTTGG 8344  
QY 4520 AATGAAGGTGAAGCCTTGGTTATTTCTTGGATGTCCTCTCAACAGAGTTGACAGAGT 4579  
Db 8345 AATGAAGGTGAAGCCTTGGTTATTTCTTGGATGTCCTCTCAACAGAGTTGACAGAGT 8404  
QY 4580 AAGAAACAAAATGTATACACGCGAGGTTTTTCAGACAGGTGGAAGTTTCCAAGAGATTT 4639

Db 8405 AAAGAACAAAATGTATCCACGACAGTTTTTTCAGACAGGTGGAAGTTTCCAAGAGATTT 8464  
QY 4640 CACAGGTGAGATCATACCATCAACGCTCATGAATTTACCAGGAATGGATTTGTCGGTTC 4699  
Db 8465 CACAGGTGAGATCATACCATCAACGCTCATGAATTTACCAGGAATGGATTTGTCGGTTC 8524  
QY 4700 CTCAAGCGCGTCAAGAACACACGAGGAGATACCCACATTAATCAACAGATGAGATGAA 4759  
Db 8525 CTCAAGCGCGTCAAGAACACACGAGGAGATACCCACATTAATCAACAGATGAGATGAA 8584  
QY 4760 TAAAGCATCCCATTTTCAAAAAACATTTTGGATCTGCTCAACTCTCTGAAGATGCT 4819  
Db 8585 TAAAGCATCCCATTTTCAAAAAACATTTTGGATCTGCTCAACTCTCTGAAGATGCT 8644  
QY 4820 TACAAGCAGTCCAGTACCAAAACAGAACATCAACGATGGTGTCTACCGAGAGATAGAAC 4879  
Db 8645 TACAAGCAGTCCAGTACCAAAACAGAACATCAACGATGGTGTCTACCGAGAGATAGAAC 8704  
QY 4880 TGCTGAAGACGTGGTGTGATCCGCTCAGTAAACAATTTCAAGCTTTACAGAACATATTGGTGA 4939  
Db 8705 TGCTGAAGACGTGGTGTGATCCGCTCAGTAAACAATTTCAAGCTTTACAGAACATATTGGTGA 8764  
QY 4940 ATCAAAATTCACAGCAATTAAGAGCAGACGCGCAGTTTGAATACAAAGGAGACAAATGCCACTAT 4999  
Db 8765 ATCAAAATTCACAGCAATTAAGAGCAGACGCGCAGTTTGAATACAAAGGAGACAAATGCCACTAT 8824  
QY 5000 TTTACGAGAGATGAAAGGACGCTTGTGATGGGAAAAAGCCTTACAGCCAGTGGGATAG 5059  
Db 8825 TTTACGAGAGATGAAAGGACGCTTGTGATGGGAAAAAGCCTTACAGCCAGTGGGATAG 8884  
QY 5060 TCTCAGAAAAAGATGTGAGGGGAATGAAGGAGACAGGACGAAACAAAAACAATATGGA 5119  
Db 8885 TCTCAGAAAAAGATGTGAGGGGAATGAAGGAGACAGGACGAAACAAAAACAATATGGA 8944  
QY 5120 TTCCATAGACTATCAAGCAATTAAGACGTGTAGTATCAGCCAGATTTCTGAGGCTATCAA 5179  
Db 8945 TTCCATAGACTATCAAGCAATTAAGACGTGTAGTATCAGCCAGATTTCTGAGGCTATCAA 9004  
QY 5180 GGAAAGAGGATGAATTAACATGTTGGCGGTACGAAATTAAGGATTTCTAGAACCGGATAGT 5239  
Db 9005 GGAAAGAGGATGAATTAACATGTTGGCGGTACGAAATTAAGGATTTCTAGAACCGGATAGT 9064  
QY 5240 TAA 5242  
Db 9065 TGA 9067

## RESULT 3

US-09-553-690-6  
; Sequence 6, Application US/09553690  
; Patent No. 6476296

GENERAL INFORMATION:  
; APPLICANT: Fischer, Robert L.

; APPLICANT: Choi, Yoonhee  
; APPLICANT: Hannon, Mike

; APPLICANT: The Regents of the University of California  
; TITLE OF INVENTION: Nucleic Acids That Control Seed and

; FILE OF INVENTION: Fruit Development in Plants  
; FILE REFERENCE: 023070-09900US

; CURRENT APPLICATION NUMBER: US/09/553,690  
; CURRENT FILING DATE: 2000-04-21

; NUMBER OF SEQ ID NOS: 50  
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 6  
; LENGTH: 1478

; TYPE: DNA  
; ORGANISM: Arabidopsis sp.

; FEATURE:  
; OTHER INFORMATION: ATPOPOS (ATR) 5' untranslated region

US-09-553-690-6

Query Match

21.5%; Score 1478; DB 4; Length 1478;





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Db 181 CAAAAAATAAAAAAAAAAACTCGAG 205

RESULT 5
US-09-313-294A-7228
; Sequence 7228, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-03-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 7228
; LENGTH: 302
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 700381361H1
; NAME/KEY: unsure
; LOCATION: 128
; OTHER INFORMATION: a, t, c, g, or other
US-09-313-294A-7228

Query Match 2.2%; Score 150.4; DB 4; Length 302;
Best Local Similarity 70.8%; Pred. No. 1.6e-31;
Matches 199; Conservative 0; Mismatches 82; Indels 0; Gaps 0;

Qy 5455 TTCAGTACACTCTCGAGCTATACCCAGTGTCTGAGTCCATCCAAAATTTCTTTGGC 5514
Db 1 TACAGCTACATCTCTTGGAGCTATATCTATCTTGAAGAACTATACAAAAGTATCTTTGGC 60

Qy 5515 CAAGACTTTGCAACTGCATCAACGACACTGTATGAATTAACACTACCACTGATTAGT 5574
Db 61 CTCGCTTTGTAACCTGCATCAGCAGACACTGTATGAGCTGATTCAGATGATTACAT 120

Qy 5575 TTGGAAGAGTATTTTGCAAAAGAGTAGACCAAAATTTGAATGCTGCTCAATGAGAGGAG 5634
Db 121 TTGGAAGAGCTTTTGTACCAAGAGAGAGCAAAATTTGAATGCTGCTCAATGAGAGT 180

Qy 5635 AGTGAGACACTTTGCCAGTGTCTATGCTAGTGAAGACTTGTCTTTACCGGCACAGAGG 5694
Db 181 AGTGAAGCACTTTTGCAAGTGCAATTTGCAAGTGCAAGGCTTGCACTTCTGCTCCCGAG 240

Qy 5695 AGAGGAGCTTAACAGTCAACTATTCGGTCCCTCCCGAG 5735
Db 241 AGGAAGCTTAGTGAAGTTGAGCAATCCATTTGCTTTCCAG 281

RESULT 6
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/07/935,313
; FILING DATE:
; APPLICATION NUMBER: EP 91 114 300.6
; FILING DATE: 26-AUG-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 30472/114 IMMU
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703)836-9300
; TELEFAX: (703)683-4109
; TELEX: 899149
; INFORMATION FOR SEQ ID NO: 14:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7218 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: pTZgpt-Fls
US-08-232-463-14

Query Match 1.3%; Score 91.6; DB 1; Length 7218;
Best Local Similarity 2.6%; Pred. No. 3.6e-14;
Matches 10; Conservative 256; Mismatches 120; Indels 0; Gaps 0;

Qy 3339 AGAAGCAAGCCATAAGGAAAGGAGGAAAGTCCATACAAAGATTTCAGGAAAGCAAGAGT 3398
Db 1436 ACRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1377

Qy 3399 CCATCAGAGAACTTCTGTGTGTCAGGATTCATTGCGGAAATAATTACAGATGCAAAAT 3458
Db 1376 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1317

Qy 3459 CTGTATCTAGAGACAAAGAAAGCAAGCAAGCAAAATGCAATGCTTGTACAAAGCA 3518
Db 1316 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1257

Qy 3519 GATGTCGACATGTTCCCTATCAGAGCAAGGAAAGCAAGCAAGCAAGCAAGCAAGCAAGT 3578
Db 1256 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1197

Qy 3579 GACGATGAACAACTCGCATATGGAATTCATGATGGGAAAGGAGATGAAAGAGGG 3638
Db 1196 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1137

Qy 3639 GATGAAGAGAGGATAAAAGCAAGAGAGGTTGGGAGAGAGAGAGAGAGTCTTCCGA 3698
Db 1136 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1077

Qy 3699 GGAAGGCTGATTCCTTCATCGCTCG 3724
Db 1076 RRRRRRRRRATCGCAAGCTCCCTCG 1051

RESULT 7
US-08-232-463-14
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEIFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52

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; LENGTH: 2169
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Degenerate polynucleotide sequence of zapop3
; NAME/KEY: misc.feature
; LOCATION: (1)...(2169)
; OTHER INFORMATION: n = A,T,C or G
US-09-434-408-3

Query Match      0.7%; Score 47.4; DB 3; Length 2169;
Best Local Similarity 26.8%; Pred. No. 0.038;
Matches 90; Conservative 65; Mismatches 181; Indels 0; Gaps 0;

Qy 3086 ACCTCAGGTTATPAGAAATCGAGATCCCACTGATGGGCAAGAAAAGGTAAAAATAC 3145
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Db 1313 AYCABAAYAAAGCNATHNSNCARATHYTNCGARWNSGNCNATGCARAARGCNCNTYVG 1372
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

Qy 3146 TGCCAGCATCAGTAAAGGTGCATCTAAAGGAACTCGTCTCCAGTTAAAAAGACAGCAGA 3205
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 1373 ARGCNNTNCARGTNAARAARGAYTNTATGCAYMGNCCARATHMGNWNSNCARATHAARYTNA 1432
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

Qy 3206 AAAGCAGAAATGTATTGTCACCAAAACGCTGCRAAAAAGGTCGACGAGGTAGAAAAA 3265
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 1433 THGARACNGARYTNTNCARYTNACNARYTNAGRYTNAARMGNARWNSYTNNGAYCNG 1492
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

Qy 3266 ATCAGTACCTCGCCTGCTCATGCTCCAGATCCAGATCCAGCTTGGCAACCTACTCTCCCAA 3325
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 1493 ARWNSYTNCCARGARATGATHNSNGARCARMGNTGGCYNWNSWNTYTNINCARCARY 1552
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

Qy 3326 GACACCTTTATCAAGAACGACCCCTAAAGGAAAGGAGAAAGTCCATACAGATTCCAGG 3385
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 1553 TNYTNAARGAARACARCARCMGNGARGARGARYTNMGNGARATHYTNACNGARYTNARG 1612
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

Qy 3386 AAAAGCAAGAGGTCCATCAGGAGAACTCTGTGTCA 3421
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 1613 CNAARWSNGARACNMGNCGARGAAYATYGGYTNA 1648
   | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
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## RESULT 15

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US-09-244-805-29/c
; Sequence 29, Application US/09244805
; Patent No. 6699660
; GENERAL INFORMATION:
; APPLICANT: Worley, Paul F.
; APPLICANT: Lanahan, Anthony
; APPLICANT: Goetz, Bernard
; APPLICANT: Heimisch, Holger
; APPLICANT: Kuner, Rohini
; APPLICANT: Scheek, Sigrid
; APPLICANT: Nikolich, Karoly
; APPLICANT: Zhukovski, Eugene
; TITLE OF INVENTION: IMMEDIATE EARLY GENES AND METHODS OF USE
; TITLE OF INVENTION: THEREFOR
; FILE REFERENCE: 10496/004001
; CURRENT APPLICATION NUMBER: US/09/244,805
; CURRENT FILING DATE: 1999-02-05
; PRIOR APPLICATION NUMBER: 60/074,518
; PRIOR FILING DATE: 1998-02-12
; PRIOR APPLICATION NUMBER: 60/074,135
; PRIOR FILING DATE: 1998-02-06
; NUMBER OF SEQ ID NOS: 62
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 2527
; TYPE: DNA
; ORGANISM: Eukaryote
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (41)...(871)
US-09-244-805-29
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Query Match      0.7%; Score 45.8; DB 4; Length 2527;
Best Local Similarity 48.0%; Pred. No. 0.12;
Matches 131; Conservative 0; Mismatches 142; Indels 0; Gaps 0;

Qy 51 TTTTAGCTCCCATTTTCTGTTTATTACATATTATTTCCTTTTCTCTCTCTCCCTTTT 110
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Db 2515 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 2456
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GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

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Searched: 5633728 seqs, 3035525691 residues

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6873	100.0	6873	10 US-09-840-743-5	Sequence 5, Appli
2	4790.2	69.7	10620	10 US-09-840-743-7	Sequence 7, Appli
3	4788.6	69.7	12785	10 US-09-840-743-1	Sequence 1, Appli
4	1478	21.5	1478	10 US-09-840-743-6	Sequence 6, Appli
5	1478	21.5	2066	19 US-10-966-482-15	Sequence 15, Appli
6	723.8	10.5	6418	18 US-10-437-963-37689	Sequence 13, Appli
7	676.2	9.8	2775	18 US-10-425-115-107694	Sequence 107694,
8	657	9.6	2380	17 US-10-425-114-31374	Sequence 31374, A
9	643	9.4	3769	18 US-10-437-963-12410	Sequence 12410, A
10	575	8.4	2294	17 US-10-425-114-33288	Sequence 33288, A
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16	398	5.8	1592	18	US-10-425-115-177698	Sequence 177698,
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## ALIGNMENTS

RESULT 1  
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; Sequence 5, Application US/09840743  
; Publication No. US20030135890A1  
; GENERAL INFORMATION:  
; APPLICANT: Fischer, Robert L.  
; APPLICANT: Choi, Yeonhee  
; APPLICANT: Hannon, Mike  
; APPLICANT: Okamura, Jack Kishiro  
; APPLICANT: Tatarinova, Tatiana Valerievna  
; APPLICANT: The Regents of the University of California  
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development  
; FILE REFERENCE: 023070-099910US  
; CURRENT APPLICATION NUMBER: US/09/840,743  
; CURRENT FILING DATE: 2001-04-23  
; PRIOR APPLICATION NUMBER: US 09/553,690  
; PRIOR FILING DATE: 2000-04-21  
; NUMBER OF SEQ ID NOS: 119  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 6873  
; TYPE: DNA  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; OTHER INFORMATION: DMT CDNA  
US-09-840-743-5

Query Match 100.0%; Score 6873; DB 10; Length 6873;  
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Matches 6873; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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QY 5881 CCGAGAGTGATATTTGAAGATGCTTACTACAATGAGGACCTCTGACGAGATCCCAACAATAA 5940  
DB |||||  
QY 5881 CCGAGAGTGATATTTGAAGATGCTTACTACAATGAGGACCTCTGACGAGATCCCAACAATAA 5940  
DB |||||  
QY 5941 AACTCAACATTTGAACAGTTTGGAAATGACTCTACGGGAACACATGGAAGAAACATGAGGC 6000  
DB |||||  
QY 5941 AACTCAACATTTGAACAGTTTGGAAATGACTCTACGGGAACACATGGAAGAAACATGAGGC 6000  
DB |||||  
QY 6001 TCCAAAGAGTGATGTCATGTCCTTGGTCTTGGTCTTGGATCCAACTACTTCTTATTC 6060  
DB |||||  
QY 6001 TCCAAAGAGTGATGTCATGTCCTTGGTCTTGGTCTTGGATCCAACTACTTCTTATTC 6060  
DB |||||  
QY 6061 CAACTCCCAAACTTAAAGAACATTTAGCCGCTCTCAGGACAGAGCACCAGTGTACAGCTCC 6120  
DB |||||  
QY 6061 CAACTCCCAAACTTAAAGAACATTTAGCCGCTCTCAGGACAGAGCACCAGTGTACAGCTCC 6120  
DB |||||  
QY 6121 CAGATTCACATCTGCTCTCTTGGTATGGATGAATAAAAGAGAACCCAGATGATCCAAGTCCIT 6180  
DB |||||  
QY 6121 CAGATTCACATCTGCTCTCTTGGTATGGATGAATAAAAGAGAACCCAGATGATCCAAGTCCIT 6180  
DB |||||  
QY 6181 ATCTCTTAGCTATATGAGACACAGGTGAACAGCGAATTTCCGACACACCCGCTGAACAGA 6240  
DB |||||  
QY 6181 ATCTCTTAGCTATATGAGACACAGGTGAACAGCGAATTTCCGACACACCCGCTGAACAGA 6240  
DB |||||  
QY 6241 AGTGTGGAGGGAAGCGTCTGGCAAAATGTGCTTTGACGAGACTTGTCTGAGTGTAAACA 6300  
DB |||||  
QY 6241 AGTGTGGAGGGAAGCGTCTGGCAAAATGTGCTTTGACGAGACTTGTCTGAGTGTAAACA 6300  
DB |||||  
QY 6301 GTCTGAGGGAAGCAAACTCAGACAGTTCGAGGAACCTCTTCTGATPACTTCTGCGACTG 6360  
DB |||||  
QY 6301 GTCTGAGGGAAGCAAACTCAGACAGTTCGAGGAACCTCTTCTGATPACTTCTGCGACTG 6360  
DB |||||  
QY 6361 CCATGAGAGGAAAGTTTTCGCTCAACGGGACATATTTCCAACTCAACGAGTATTTTGAG 6420  
DB |||||  
QY 6361 CCATGAGAGGAAAGTTTTCGCTCAACGGGACATATTTCCAACTCAACGAGTATTTTGAG 6420  
DB |||||  
QY 6421 ACCAGAGTCCAGTCTCAAAACCCATCGATGTTCTTAGAGATGGGATCTCCCAA 6480  
DB |||||  
QY 6421 ACCAGAGTCCAGTCTCAAAACCCATCGATGTTCTTAGAGATGGGATCTCCCAA 6480  
DB |||||  
QY 6481 GAAGGACTGTTTACTTTCGGAACATCAGTAACATCAATATTCAGAGGTCTTTCACCGGAGC 6540  
DB |||||  
QY 6481 GAAGGACTGTTTACTTTCGGAACATCAGTAACATCAATATTCAGAGGTCTTTCACCGGAGC 6540  
DB |||||  
QY 6541 AGATACAGTCTGCTTTTGGAAAGGATTCGATGTGTCGCGGATTCGAAACAGAAAGACA 6600  
DB |||||  
QY 6541 AGATACAGTCTGCTTTTGGAAAGGATTCGATGTGTCGCGGATTCGAAACAGAAAGACA 6600  
DB |||||  
QY 6601 GAGCACCCGCTCCATTAATGCGAAGGTTGCTTTTCTCGCGAGCAATTTGAAGAACAAACA 6660  
DB |||||

Db	6601	GAGCACCCTCCATTAAATGCGAAGTTCATTCTTCGGACCAATTAAGAACAACA
Qy	6661	AACCTAAAAGATGA CT GGAAGAACGCATTGTCTCTGCTCTCCTCTATTATAA
Db	6661	ANACTTAAGATGACTGGAAGAACCAAAGCATTTCTTGCTCTCTCTATTATAA
Qy	6721	GCCAGAAAAAGTCCCATTTAGACATAATACAGGAATCCAATAGGCTATTTCTCTTTT
Db	6721	GCCAGAAAAAGTCCCATTTAGACATAATACAGGAATCCAATAGGCTATTTCTCTTTT
Qy	6781	TTCCTTATTTTCATTCATAGCGCACAGGACACAAAAAGTTTTTTTGGGTATTATTTT
Db	6781	TTCCTTATTTTCATTCATAGCGCACAGGACACAAAAAGTTTTTTTGGGTATTATTTT
Qy	6841	CTCTCTAACAAAAAAAAAAAAAACTCGAG 6873
Db	6841	CTCTCTAACAAAAAAAAAAAAAACTCGAG 6873

RESULT 2  
US-09-840-743-7  
Sequence 7, Application US/09840743  
Publication No. US20030135890A1  
GENERAL INFORMATION:  
APPLICANT: Fischer, Robert L.  
APPLICANT: Choi, Yeonhee  
APPLICANT: Hannon, Mike  
APPLICANT: Okamuro, Jack Kishiro  
APPLICANT: Tatarinova, Tatiana Valerievna  
TITLE OF INVENTION: The Regents of the University of California  
FILE REFERENCE: Nucleic Acids That Control Plant Development  
CURRENT APPLICATION NUMBER: US/09/840,743  
CURRENT FILING DATE: 2001-04-23  
PRIOR APPLICATION NUMBER: US 09/553,690  
PRIOR FILING DATE: 2000-04-21  
NUMBER OF SEQ ID NOS: 119  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 7  
LENGTH: 10620  
TYPE: DNA  
ORGANISM: Arabidopsis thaliana  
FEATURE:

OTHER INFORMATION: DMT1 (1DMWT5) gene sequence from BAC T32M21  
  
US-09-840-743-7

Query Match            69.7%; Score 4790.2; DB 10; Length 10620;  
Best Local Similarity 92.7%; Pred. No. 0;  
Matches 522; Conservative 0; Mismatches 13; Indels 401; Gaps 3;

Qy	1	GTCTCCGGCATTTGACCTCGCTGAGATCAGAAGCTTAGATCGGTGAGCTTTTAGCTCC 60
Db	1449	GTCTCCGGCATTTGACCTCGCTGAGATCAGAAGCTTAGATCGGTGAGCTTTTAGCTCC 1508
Qy	61	ATTCTCTGTTTATTACATATTATTCCTTTTTTTCTCTCTCCCCCTTTTATCTGGAATT 120
Db	1509	ATTCTCTGTTTATTACATATTATTCCTTTTTTTCTCTCTCCCCCTTTTATCTGGAATT 1568
Qy	121	TGTTCTGCTAAATTTTCAGCTGTTCATTTTCGATCACGAGAAGAAATCACTGGGTTTT 180
Db	1569	TGTTCTGCTAAATTTTCAGCTGTTCATTTTCGATCACGAGAAGAAATCACTGGGTTTT 1628
Qy	181	TATGTTAATCAATACATGTTCCCTGTTTCTGATCATAAATCTAGCTATTAAACCTGAT 240
Db	1629	TATGTTAATCAATACATGTTCCCTGTTTCTGATCATAAATCTAGCTATTAAACCTGAT 1688
Qy	241	TTTGATTCTCGGTAATAAAACCTCTGATTTGCTTTTATCTTCACTTTGCCCATAAACAT 300
Db	1689	TTTGATTCTCGGTAATAAAACCTCTGATTTGCTTTTATCTTCACTTTGCCCATAAACAT 1748
Qy	301	TGCTTACTTTATTCGCTCTTCTTTTACC GTTTCCAGCTAAAAAATTTCTTCGCTATTCAAT 360

1749	Db	TGCTTACTTTATTTTCGGCTCTTCTTTTACCGTTTCCAGCTAAAAAAATTTCTTCGCTATTTCAAAT	1808
361	Qy	GTGTTTCTCGTTTTTGTGTGATGAGAAAAATATCTGACAAAAAATCATTTATTTGCAATTTTAT	420
1809	Db	GTGTTTCTCGTTTTTGTGTGATGAGAAAAATATCTGACAAAAAATCATTTATTTGCAATTTTAT	1868
421	Qy	GGTGCAGATTCTTTAGTTTAATGTCCGCTTCTCTAACCAAGTCAGATTAAAAAGGAGTGTTTC	480
1869	Db	GGTGCAGATTCTTTAGTTTAATGTCCGCTTCTCTAACCAAGTCAGATTAAAAAGGAGTGTTTC	1928
481	Qy	GTCCATGTTGCTTTTGTTTTGGTCTTTTGGAGAGAGTTTTCGGAGAGTTAGTGAGTGTTAT	540
1929	Db	GTCCATGTTGCTTTTGTTTTGGTCTTTTGGAGAGAGTTTTCGGAGAGTTAGTGAGTGTTAT	1988
541	Qy	TTCCGGGTGAGGTAGTGATTAAGTTTCAAGGGGAGTGATTCATCAAGTGTGTTTATGAAATT	600
1989	Db	TTCCGGGTGAGGTAGTGATTAAGTTTCAAGGGGAGTGATTCATCAAGTGTGTTTATGAAATT	2048
601	Qy	CGAGGGCTGATCCGGGGGATAGATATTTTTCGAGTTCCTTTTGGAGAAATCAAATCAAACAG	660
2049	Db	CGAGGGCTGATCCGGGGGATAGATATTTTTCGAGTTCCTTTTGGAGAAATCAAATCAAACAG	2108
661	Qy	AGTTCATGGGTTCTTCGATTCGATTTACACCCCAAAAAAACCAGTCAAGTCTGATGCTAG	720
2109	Db	AGTTCATGGGTTCTTCGATTCGATTTACACCCCAAAAAAACCAGTCAAGTCTGATGCTAG	2168
721	Qy	ATGAGAGAGTGATTAACACCAAGGATCTAAATGGGTTTCCAGGTGCTGAAATTTGTAGACAGGG	780
2169	Db	ATGAGAGAGTGATTAACACCAAGGATCTAAATGGGTTTCCAGGTGCTGAAATTTGTAGACAGGG	2228
781	Qy	GATTCGCAACACTGTGTGGATCATAAATGGGGTTTTTGATCAATGTGCTCATCAGGGCG	840
2229	Db	GATTCGCAACACTGTGTGGATCATAAATGGGGTTTTTGATCAATGTGCTCATCAGGGCG	2288
841	Qy	TTTACCAACTTAAGTATGATGATCAATAGCTTAGCGGGATCACAATGCAAGCTTGCGNGTA	900
2289	Db	TTTACCAACTTAAGTATGATGATCAATAGCTTAGCGGGATCACAATGCAAGCTTGCGNGTA	2348
901	Qy	ATAGTCAGAGAGATCTTTTGGGCAGAGTGAGTGACTTCTCCTTTAGCACCAAGTTATCA	960
2349	Db	ATAGTCAGAGAGATCTTTTGGGCAGAGTGAGTGACTTCTCCTTTAGCACCAAGTTATCA	2408
961	Qy	GAACAACCAACCGGTAAATGTAGACCGGTCAATGGAAATTTTACTTCAGATGTCGGTATGG	1020
2409	Db	GAACAACCAACCGGTAAATGTAGACCGGTCAATGGAAATTTTACTTCAGATGTCGGTATGG	2468
1021	Qy	TAAATGGTCTTTTCAACAGAGTGGCACTTCTCAAGCTGGCTATATAGTTTGAATTGG	1080
2469	Db	TAAATGGTCTTTTCAACAGAGTGGCACTTCTCAAGCTGGCTATATAGTTTGAATTGG	2528
1081	Qy	ATCAGTCTGTTGAATCTGTATCAGATGCCCTTCTCCTTTCAACAGCTTGTGAGTGGTGGG	1140
2529	Db	ATCAGTCTGTTGAATCTGTATCAGATGCCCTTCTCCTTTCAACAGCTTGTGAGTGGTGGG	2588
1141	Qy	ATAGCTTATTTCAAAGTTTCGTCAAATGTGAGTGATCAAAATCTATTTTTCAGTTTTTTTTTTC	1200
2589	Db	ATAGCTTATTTCAAAGTTTCGTCAAATGTGAGTGATCAAAATCTATTTTTCAGTTTTTTTTTTC	2648
1201	Qy	CTTTTCTTCGGTCTTTCAGTACTTATAGATAGAACATGAATTAAGATATCTTAAGAAAGT	1260
2649	Db	CTTTTCTTCGGTCTTTCAGTACTTATAGATAGAACATGAATTAAGATATCTTAAGAAAGT	2708
1261	Qy	CATGGTTTTTGAACAGATGGACCTTCAGCGGTGTAACAAGCTCTTTACAAATTTCAAATTCAC	1320
2709	Db	CATGGTTTTTGAACAGATGGACCTTCAGCGGTGTAACAAGCTCTTTCAAATTTCAAATTCAC	2768
1321	Qy	CAATTAGAAGAGAGCAGTTGGGTCAAGTCTGTGAAAGTTTCGTTTTCAATATGTACCGTCAA	1380
2769	Db	CAATTAGAAGAGAGCAGTTGGGTCAAGTCTGTGAAAGTTTCGTTTTCAATATGTACCGTCAA	2828
1381	Qy	CGCCCAAGTCTGTTTCAGAACAGGTTGAAAGACTGGATTCCTTTGAAACAGATAGTTTACAACATA	1440
2829	Db	CGCCCAAGTCTGTTTCAGAACAGGTTGAAAGACTGGATTCCTTTGAAACAGATAGTTTACAACATA	2888

QY 1441 CTGACATGMAATCCAGAGCCGAAATCTGCACAAAGTATGCGAGCAATTTATGCACTCGT 1500  
Db 2889 CTGACATGAATCCAGAGCCGAAATCTGCACAAAGTATGCGAGCAATTTATGCACTCGT 2948  
QY 1501 CTGCTGTTAATGCGACGGAAGCTACTGAACAAATGATGCGAGCAGACAAAGATGTTCTGG 1560  
Db 2949 CTGCTGTTAATGCGACGGAAGCTACTGAACAAATGATGCGAGCAGACAAAGATGTTCTGG 3008  
QY 1561 AGTTGACCTTACAAACTCTCTCAGCAGAAACCTTCCAAAGGAAAGAAAGTTCATGC 1620  
Db 3009 AGTTGACCTTACAAACTCTCTCAGCAGAAACCTTCCAAAGGAAAGAAAGTTCATGC 3068  
QY 1621 CCAAGTGTGTCGGAAGGCAAACTTAAAGGAGCCACGCAAGTGCACCTCAGGAAAG 1740  
Db 3069 CCAAGTGTGTCGGAAGGCAAACTTAAAGGAGCCACGCAAGTGCACCTCAGGAAAG 3128  
QY 1681 AAGTGTGTCGGAAGGCAAACTTAAAGGAGCCACGCAAGTGCACCTCAGGAAAG 1740  
Db 3129 AAGTGTGTCGGAAGGCAAACTTAAAGGAGCCACGCAAGTGCACCTCAGGAAAG 3188  
QY 1741 TGAATCTAAAGAAACCGGAGTGCACAAAGGAAATTTGAAAGATCAGCAACTTAAA 1800  
Db 3189 TGAATCTAAAGAAACCGGAGTGCACAAAGGAAATTTGAAAGATCAGCAACTTAAA 3248  
QY 1801 AGCCAGCAATGTTGAGATATGAGCAACAAAGCCCTGAAGTGCACCTCAAAAGTTGCA 1860  
Db 3249 AGCCAGCAATGTTGAGATATGAGCAACAAAGCCCTGAAGTGCACCTCAAAAGTTGCA 3308  
QY 1861 GAAAGCTTGAATTTGACTTGGAGATCTGGAGATCTGGAGATCGAGGCAAGTGTCTGAGT 1920  
Db 3309 GAAAGCTTGAATTTGACTTGGAGATCTGGAGATCGAGGCAAGTGTCTGAGT 3368  
QY 1921 CTGAAATGTCAGAAACAGTAGTGGCGCAAACTCGTTTCTGAGATCAGAGATGCCATTG 1980  
Db 3369 CTGAAATGTCAGAAACAGTAGTGGCGCAAACTCGTTTCTGAGATCAGAGATGCCATTG 3428  
QY 1981 GTGGAACTAATGGTAGTTCTCTGGATTGAGTGTCAAAATGACCAAGCAATGGATTGG 2040  
Db 3429 GTGGAACTAATGGTAGTTCTCTGGATTGAGTGTCAAAATGACCAAGCAATGGATTGG 3488  
QY 2041 GGGCTATGAACAGGCACTTGAAGTGTCAATGGGAAACAGCCAGATATACTACTACAG 2100  
Db 3489 GGGCTATGAACAGGCACTTGAAGTGTCAATGGGAAACAGCCAGATATACTACTACAG 3548  
QY 2101 GAGCGAACTGGCCAGAGACCAACCTGATTATGACTAGAAACAGCAATGCCAGT 2160  
Db 3549 GAGCGAACTGGCCAGAGACCAACCTGATTATGACTAGAAACAGCAATGCCAGT 3608  
QY 2161 TCCCACTGGCAACCCAGAACCCAGTTTCCAAATGGGAAACCAACAGCTTGGCTTACA 2220  
Db 3609 TCCCACTGGCAACCCAGAACCCAGTTTCCAAATGGGAAACCAACAGCTTGGCTTACA 3668  
QY 2221 TGAAAAACCACTTATGGCTTTCATTTGTTAAGTGGTAAACAGCAACCTCGCATGACCAATAAGAA 2280  
Db 3669 TGAAAAACCACTTATGGCTTTCATTTGTTAAGTGGTAAACAGCAACCTCGCATGACCAATAAGAA 3728  
QY 2281 ACCAGAGCTTGTCTGGCCATGGTATCAACCACTATGTATCTGATAGGAATCTCAC 2340  
Db 3729 ACCAGAGCTTGTCTGGCCATGGTATCAACCACTATGTATCTGATAGGAATCTCAC 3788  
QY 2341 GGCCTGCATTAAGTGGAAACAGCAACTAGGAGTCCCAAGGAAACCAAGCGGCTA 2400  
Db 3789 GGCCTGCATTAAGTGGAAACAGCAACTAGGAGTCCCAAGGAAACCAAGCGGCTA 3848  
QY 2401 TATTTTGAATCACCAGACTTGTTCCTGCTGGAATACAGCTATATGATATGATATGATATGAT 2460  
Db 3849 TATTTTGAATCACCAGACTTGTTCCTGCTGGAATACAGCTATATGATATGATATGATATGAT 3908  
QY 2461 ACATGCACTCACTTGTATGTCAACCGAGGCAACCAATGACCTACTATATAAACC 2520  
Db 3909 ACATGCACTCACTTGTATGTCAACCGAGGGCAACCAATGACCTACTATATAAACC 3968

QY 2521 AGCAACCTGGATCATTAATAAGAGCCAGCAGCCTTGGTACCTTTGATTGACCAAGAAC 2580  
Db 3969 AGCAACCTGGATCATTAATAAGAGCCAGCAGCCTTGGTACCTTTGATTGACCAAGAAC 4028  
QY 2581 CTGCAACTCCAAAGGTTTACTCTACTGAAATCAGATGGTAGTACCAAGCATGTATCGC 2640  
Db 4029 CTGCAACTCCAAAGGTTTACTCTACTGAAATCAGATGGTAGTACCAAGCATGTATCGC 4088  
QY 2641 CTGGGCTTCGACCTCATTTCTCAGTCACAAAGTTCTTACAAACATATCTACATGTTGATCTG 2700  
Db 4089 CTGGGCTTCGACCTCATTTCTCAGTCACAAAGTTCTTACAAACATATCTACATGTTGATCTG 4148  
QY 2701 TTTCCAGAGATTTGAATGGGACTACAGTACATGCCAGAGAGCAGGCTCTCTGATATCC 2760  
Db 4149 TTTCCAGAGATTTGAATGGGACTACAGTACATGCCAGAGAGCAGGCTCTCTGATATCC 4208  
QY 2761 ATTCTTTACCAAGATATCCATCAAGGAATATAGTACATCTTCTCATGAGATATCCA 2820  
Db 4209 ATTCTTTACCAAGATATCCATCAAGGAATATAGTACATCTTCTCATGAGATATCCA 4268  
QY 2821 ATGTAATGGGTCAAGAAAGCGTTTACTCTCAAACTCTTCTCTGCCAACTCCAATTTATGG 2880  
Db 4269 ATGTAATGGGTCAAGAAAGCGTTTACTCTCAAACTCTTCTCTGCCAACTCCAATTTATGG 4328  
QY 2881 CTAACTTTGAGGAGCCAGGCGCTCGAAGACAGTATCATCTGTCGAATGGGACAGACGG 2940  
Db 4329 CTAACTTTGAGGAGCCAGGCGCTCGAAGACAGTATCATCTGTCGAATGGGACAGACGG 4388  
QY 2941 AAAAGCATGATCTAAACTTAGCTCAACAGATTTGCTCAATCACAAGATGTCGAGAGACATA 3000  
Db 4389 AAAAGCATGATCTAAACTTAGCTCAACAGATTTGCTCAATCACAAGATGTCGAGAGACATA 4448  
QY 3001 ACAGCAGCATGCTGTGGAATATTTAGTCTGCTCAAGAAACGAAATCTCAAGAAAGTAG 3060  
Db 4449 ACAGCAGCATGCTGTGGAATATTTAGTCTGCTCAAGAAACGAAATCTCAAGAAAGTAG 4508  
QY 3061 TCCAAAGAAATTTGCAATGGCATGCCACCTGAGGTATAGAAATCGAGGATGATCCAACTG 3120  
Db 4509 TCCAAAGAAATTTGCAATGGCATGCCACCTGAGGTATAGAAATCGAGGATGATCCAACTG 4568  
QY 3121 ATGGGCAAGAAAGGTAAATAATCTGCCAGCATCAGTAAAGGTGATCTTAAAGGAAACT 3180  
Db 4569 ATGGGCAAGAAAGGTAAATAATCTGCCAGCATCAGTAAAGGTGATCTTAAAGGAAACT 4628  
QY 3181 CGTCTCCAGTTTAAAGACAGCAGAAAGGAGAAATGATTTGCCAAACCGCTTGCAA 3240  
Db 4629 CGTCTCCAGTTTAAAGACAGCAGAAAGGAGAAATGATTTGCCAAACCGCTTGCAA 4688  
QY 3241 AAAAGGTGAGCAGGTAGAAAAAATCAGTACCTCCGCTGCTCATGCTCAGAGATCC 3300  
Db 4689 AAAAGGTGAGCAGGTAGAAAAAATCAGTACCTCCGCTGCTCATGCTCAGAGATCC 4748  
QY 3301 AGCTTTGGCAACCTACTCTCCAAAGACACCTTTTATCAAGAAAGCAAGCTTAAGGAAAG 3360  
Db 4749 AGCTTTGGCAACCTACTCTCCAAAGACACCTTTTATCAAGAAAGCAAGCTTAAGGAAAG 4808  
QY 3361 GGAGAAAGTCCATACAGATTCAGGAAAGCAAG----- 3394  
Db 4809 GGAGAAAGTCCATACAGATTCAGGAAAGCAAGAGGTAACCTAATGTATTCTACAACTCTC 4868  
QY 3395 ----- 3394  
Db 4869 TGTGATATAATTTTGAGATTTTGTAACTGTGTGTCCAAACAGCTCTTATCACTGTT 4928  
QY 3395 -----AGGTCCATCAGGAGAACTTCTGTGTCAGGATTTCTATTGCGGAATTAAT 3442  
Db 4929 GGTGCGTTGTATAGTTCATCAGGAGAACTTCTGTGTCAGGATTTCTATTGCGGAATTAAT 4988  
QY 3443 TTACAGGATGCAAAATCTGTATCTTAGGACACAAAGAAAGAGAAACAAAGACAAAATGCAAT 3502  
Db 4989 TTACAGGATGCAAAATCTGTATCTTAGGAGACAAAGAAAGAGAAACAAAGACAAAATGCAAT 5048  
QY 3503 GGTCTTGTACAAAGAGGATGGTGCATTTGTTCCCTATGAGAGCAAGAAAGCAAGCAAG 3562



Db	5049	GGTCTTGTACAAAGGAGATGGTGACCTTGTTCCCTATGAGAGCAAGAAGCGAAACCAAG	5108
Qy	3563	ACCCAAAGTTGACATTGACGATGAAACAAACCTCGCATATGAACTTACTGATGGGAAAGG	3622
Db	5109	ACCCAAAGTTGACATTGACGATGAAACAAACCTCGCATATGAACTTACTGATGGGAAAGG	5168
Qy	3623	AGATGAAAAAGAGGGGATGAGAGAAAGGATTAATAAGAAAGAGAGTGGTGGGAAGAAGA	3682
Db	5169	AGATGAAAAAGAGGGGATGAGAGAAAGGATTAATAAGAAAGAGAGTGGTGGGAAGAAGA	5228
Qy	3683	AAGAAGAGTCTTCGAGGAAAGGCTGATTCCTTCATCGCTCGCATGCACCTGGTGACA	3739
Db	5229	AAGAAGAGTCTTCGAGGAAAGGCTGATTCCTTCATCGCTCGCATGCACCTGGTGACAAGG	5288
Qy	3740	-----	3739
Db	5289	TGAAGATCCACTTCTCTCTCAACTCCATTTTATTTCACACAAATTAGTAGAATACTCAA	5348
Qy	3740	-----	3739
Db	5349	AAATGATGTTTGTGTTGCAAAAATTTTAAAAATTCACCTAGTTAAACCATGTCAATAATATTC	5408
Qy	3740	-----	3739
Db	5409	ATAATGCATCTGTGAAAGAACAGGTGTGCATTTATTGTGTACAGCTGAATGGTTATGTGC	5468
Qy	3740	-----AGAGAGATAGA	3749
Db	5469	CTATTATTCTTTACTGCTATAGATGACCAATTGAACCTTAAAGCTTTACAGGAGATAGA	5528
Qy	3750	CGTTTTTCGCCATGGAAGGATCGGTGGTTGATTCGGTCAATGGAGTTTTCCCTTACACAG	3809
Db	5529	CGTTTTTCGCCATGGAAGGATCGGTGGTTGATTCGGTCAATGGAGTTTTCCCTTACACAG	5588
Qy	3810	AATGCTCTGGATCACTTTCA-----	3830
Db	5589	AATGCTCTGGATCACTTTCAAGGATATGAGTTGCCTTAATAAATAGTTTCCAAAAACA	5648
Qy	3831	-----AGCTCTGCGTCTCATGCTCTCTAGCTGCTGCTCG	3859
Db	5649	TAGAAATTAACCAATGGTGGTTTACAATGCAGCTCTGCGTCTCATGCTCTGCTGCTCG	5708
Qy	3860	ATTCCTCTCCAAAATTAAAGCAGCAGCCGAGAAAGATGAAAGCAATGTTAGAAAGCGTAGTTGT	3919
Db	5709	ATTCCTCTCCAAAATTAAAGCAGCAGCCGAGAAAGATGAAAGCAATGTTAGAAAGCGTAGTTGT	5768
Qy	3920	TGAAGATCCAGAGGATGCATTCGAACTTAAATCGAAATTCCTTCGTCGGCAGGAAAAGGT	3979
Db	5769	TGAAGATCCAGAGGATGCATTCGAACTTAAATCGAAATTCCTTCGTCGGCAGGAAAAGGT	5828
Qy	3980	TCACATCCATCTGACATGGAAGTTTCTGGGTTGATAGTGGATCAAAAGACAGACTAAG	4039
Db	5829	TCACATCCATCTGACATGGAAGTTTCTGGGTTGATAGTGGATCAAAAGACAGACTAAG	5888
Qy	4040	GGACTGTTCAAACTCTGGAATTGAAAGATTAAATTTCTTAGAGAAGAGTATTCCAAATTT	4099
Db	5889	GGACTGTTCAAACTCTGGAATTGAAAGATTAAATTTCTTAGAGAAGAGTATTCCAAATTT	5948
Qy	4100	AGAAGAGGAAGTATTATCATCAAGAATTCCTTTTGATCCGGCGATATTTTCAGTCGTGTGG	4159
Db	5949	AGAAGAGGAAGTATTATCATCAAGAATTCCTTTTGATCCGGCGATATTTTCAGTCGTGTGG	6008
Qy	4160	GAGAGTTGGATCTCTGTTTCATGTTCCAAATCAGACGCGAGAGTTTCCTACAAACAGGTGTGA	4219
Db	6009	GAGAGTTGGATCTCTGTTTCATGTTCCAAATCAGACGCGAGAGTTTCCTACAAACAGGTGTGA	6068
Qy	4220	AACAAAACTGTCAGTGGAACATCACAAATCAGTCGCAACTGGGAGCCCAACTTGTCTGA	4279
Db	6069	AACAAAACTGTCAGTGGAACATCACAAATCAGTCGCAACTGGGAGCCCAACTTGTCTGA	6128
Qy	4280	TGAAATTTGTCTTCAAGGGAATGAGACCGCATCTATATGAAGGATCTCGTGATGTTCA	4339

6129	TGAAATTTGTCTTCAAGGGAATGAGAGACCGCATCTATATGAAGGATCTGTGTGATGTTCA	6188
Qy	GAACACAGAAACTACAAATTCGCTCAGAGAAGAAACCTGATCTTTGAAAAAACAATGAAATTG	4399
Db	GAACACAGAAACTACAAATTCGCTCAGAGAAGAAACCTGATCTTTGAAAAAACAATGAAATTG	6248
Qy	GAAGAATCTGTCTGTTTGGTTCAGCCAGAAATGATCTAAATTGGCAACAACCTCCTTC	4459
Db	GAAGAATCTGTCTGTTTGGTTCAGCCAGAAATGATCTAAATTGGCAACAACCTCCTTC	6308
Qy	CAGCAGCTATGAGCAGTGTCCGACTCGACAGCCACATGTACTAGACATAGAGGATTTTGG	4519
Db	CAGCAGCTATGAGCAGTGTCCGACTCGACAGCCACATGTACTAGACATAGAGGATTTTGG	6368
Qy	AATGCAAGGTGAAGCCCTTGGTTATTCTTGGATGTCCATCTCACCAGAGTGTGACAGAGT	4579
Db	AATGCAAGGTGAAGCCCTTGGTTATTCTTGGATGTCCATCTCACCAGAGTGTGACAGAGT	6428
Qy	AAAGAACAAAATGTATCCACGCGCAGGTTTTTCAGACAAGGTGGAGTGTTCCTCAGAGAAATT	4639
Db	AAAGAACAAAATGTATCCACGCGCAGGTTTTTCAGACAAGGTGGAGTGTTCCTCAGAGAAATT	6488
Qy	CACAGGTTCAGATCATATCCATCAACGCCTCATGAAATACCAAGGAATGGATTTGTCGGGTTC	4699
Db	CACAGGTTCAGATCATATCCATCAACGCCTCATGAAATACCAAGGAATGGATTTGTCGGGTTC	6548
Qy	CTCAAGCGCGCTCCAAGAACACCAAGGACGATACCCCAATCAATCAACAAGATGAGATGAA	4759
Db	CTCAAGCGCGCTCCAAGAACACCAAGGACGATACCCCAATCAATCAACAAGATGAGATGAA	6608
Qy	TAAAGCATCCCATTTTACAAAAACATTTTTGGATCTGCTCAACTCTCTGAAAGATGCCT	4819
Db	TAAAGCATCCCATTTTACAAAAACATTTTTGGATCTGCTCAACTCTCTGAAAGATGCCT	6668
Qy	TACAAGACAGTCCAGTACCAACACAGAACATCACCGATGGCTGTCTACCGAGAGATAGAAC	4879
Db	TACAAGACAGTCCAGTACCAACACAGAACATCACCGATGGCTGTCTACCGAGAGATAGAAC	6728
Qy	TGCTGAAGAGCGTGGTTGATCCGCTCAGTAACAATCAAGCTTACAGAACATATTTGGTCGA	4939
Db	TGCTGAAGAGCGTGGTTGATCCGCTCAGTAACAATCAAGCTTACAGAACATATTTGGTCGA	6788
Qy	ATCAAAATTCAGCAATTAAGAGCAGACGGCAGTTGAAATACAAGGAGACAAATGCCACTAT	4999
Db	ATCAAAATTCAGCAATTAAGAGCAGACGGCAGTTGAAATACAAGGAGACAAATGCCACTAT	6848
Qy	TTTACGAGAGATGAAAGGAGCGCTTGCTGATGGGAAAAAGCCCTACAAGCCAGTGGGATAG	5059
Db	TTTACGAGAGATGAAAGGAGCGCTTGCTGATGGGAAAAAGCCCTACAAGCCAGTGGGATAG	6908
Qy	TCTCAGAAAAGATGTGGAGGGGAATGAAGGGAGACAGGAACGAAAAACAAATATGGA	5119
Db	TCTCAGAAAAGATGTGGAGGGGAATGAAGGGAGACAGGAACGAAAAACAAATATGGA	6968
Qy	TTCCATAGACTATGAAGCAATAGACGTGCTAGTATCAGCGAGATTTCTCAGGCGTATCAA	5179
Db	TTCCATAGACTATGAAGCAATAGACGTGCTAGTATCAGCGAGATTTCTCAGGCGTATCAA	7028
Qy	GGAAAGAGGGATGAATAACATGTTGGCCGTACCGAATTAAGGATTTCTTACGAACGGATAGT	5239
Db	GGAAAGAGGGATGAATAACATGTTGGCCGTACCGAATTAAGGATTTCTTACGAACGGATAGT	7088
Qy	TAA 5242	
Db	TGA 7091	

RESULT 3  
US-09-840-743-1  
; Sequence 1, Application US/09840743  
; Publication No. US20030135890A1  
; GENERAL INFORMATION:  
; APPLICANT: Fischer, Robert L.



[illegible]

6305	DB	CTAAAC	TTTGAGGAAGCCAGGGGCTCGAAGAGACAGATATCATCTGTCGAATCGGACAGACAGCG	6364
2941	QY	AAAA	GCATGATCTAAACCTTAGCTCAACAGAGATTTGCTCAATCACAGATGTGTGGAGACATA	3000
6365	DB	AAAAG	CATGATCTAAACCTTAGCTCAACAGATTTGCTCAATCACAGATGTGTGGAGACATA	6424
3001	QY	ACAG	CACGATGTGTGGAAATATTTAGATGCTGCAAGAAAAACGAAAAATCCAGAAAGTAG	3060
6425	DB	ACAG	CACGATGTGTGGAAATATTTAGATGCTGCAAGAAAAACGAAAAATCCAGAAAGTAG	6484
3061	QY	TCCA	AAAAAATTTGCATGGCATGCCACTCAGAGTTATAGAAAAATCGAGGATGATCCCAACTG	3120
6485	DB	TCCA	AAAAAATTTGCATGGCATGCCACTCAGAGTTATAGAAAAATCGAGGATGATCCCAACTG	6544
3121	QY	ATGG	GGCAAGAAAGGTAAAAATATCTGCCAGCATCAGTAAAGGTGCTATTAAGGAAACT	3180
6545	DB	ATGG	GGCAAGAAAGGTAAAAATATCTGCCAGCATCAGTAAAGGTGCTATTAAGGAAACT	6604
3181	QY	CGTC	TCAGTTAAAAAGACAGCAAGAAAGAGAGAAATGTATTGTGCCAAAAACCGCTGC	3240
6605	DB	CGTC	TCAGTTAAAAAGACAGCAAGAAAGAGAGAAATGTATTGTGCCAAAAACCGCTGC	6664
3241	QY	AAAA	AGGGTCGAGCAGGTAGAAAAAATCAGTACTCGCTCGCTCATGCGCTCAGAGATCC	3300
6665	DB	AAAA	AGGGTCGAGCAGGTAGAAAAAATCAGTACTCGCTCGCTCATGCGCTCAGAGATCC	6724
3301	QY	AGCT	TTTGGCAACCTACTCTCCAAAGACACCTTTATCAAGAAGCAAGCCTTAAAGGAAAG	3360
6725	DB	AGCT	TTTGGCAACCTACTCTCCAAAGACACCTTTATCAAGAAGCAAGCCTTAAAGGAAAG	6784
3361	QY	GGAA	AGATCCATACAAGATTCTAGGAAAAAGCAAG-----	3394
6785	DB	GGAA	AGATCCATACAAGATTCTAGGAAAAAGCAAGAGGTAACTAATGTATTCTACAATCTC	6844
3395	QY	-----	-----	3394
6845	DB	TGTG	ATATAATTTTGAGATTTTAGTAATCTGATGTGTCCAAACAGCTCTTTATCACTGTT	6904
3395	QY	-----	-----AGTGCATCAGAGAACTTCTGTGTGTCAGGATTTCTATTTCGGCAATAAT	3442
6905	DB	GGTC	GTGTGTATAGTCCATCAGGAACTTCTGTGTGTCAGGATTTCTATTTCGGCAATAAT	6964
3443	QY	TTAC	GAGATGCAAAATCTGTATCTTAGAGACAAGAAAGAGAAACAAGACAAAATGCAAT	3502
6965	DB	TTAC	GAGATGCAAAATCTGTATCTTAGAGACAAGAAAGAGAAACAAGACAAAATGCAAT	7024
3503	QY	GGTC	TTGTACAAGGAGATGGTGCACTTGTTCCTATGAGAGCAGAGAGCGAAAAACCAAG	3562
7025	DB	GGTC	TTGTACAAGGAGATGGTGCACTTGTTCCTATGAGAGCAGAGAGCGAAAAACCAAG	7084
3563	QY	ACCC	AAAGTTGACATTCACGATGAACCAACTCGCATATGAACTTACTGATGGGAAAGG	3622
7085	DB	ACCC	AAAGTTGACATTCACGATGAACCAACTCGCATATGAACTTACTGATGGGAAAGG	7144
3623	QY	AGAT	TAAGAAAGAGGGGATGAAGAGAAAGGATAAAAAAGAAAGAGAAGTGGTGGGAAGAAGA	3682
7145	DB	AGAT	TAAGAAAGAGGGGATGAAGAGAAAGGATAAAAAAGAAAGAGAAGTGGTGGGAAGAAGA	7204
3683	QY	AAGA	AGATCTTCGAGGAAGGCTGATTCCTTCATCGCTCGCATGCACCTGGTAC-----	3739
7205	DB	AAGA	AGATCTTCGAGGAAGGCTGATTCCTTCATCGCTCGCATGCACCTGGTAC-----	7264
3740	QY	-----	-----	3739
7265	DB	TGA	ATCCACTCTCTTCTCACTCCATTTTATTCACAAATTTAGTAGAATATCTCAA	7324
3740	QY	-----	-----	3739
7325	DB	AAAT	GATGTTTTGTTGCAAAATTTTAAAAATTCAGTTTAACCATGTCAAATAATATTC	7384
3740	QY	-----	-----	3739
7385	DB	ATA	TGCATCTTGTGAAGAACAGGTGTGCATTTTATGTGTGACAGTGAATGGTTTATGTGC	7444

QY 3740 -----AGGAGATAGA 3749  
Db 7445 CTATTATTTCTTTTACTGCTATAGATGACCAATTGAACGTTTACAGAGATAGA 7504  
QY 3750 CGTTTTTCGCATGGAAGGATCGGTGGTTGATTCGGTCAATTGAGATTTTCTTTACACAG 3809  
Db 7505 CGTTTTTCGCATGGAAGGATCGGTGGTTGATTCGGTCAATTGAGATTTTCTTTACACAG 7564  
QY 3810 AATGTCCTGGATCACCTTTCA----- 3830  
Db 7565 AATGTCCTGGATCACCTTTCAAGGTATATGAGTTGCTTTAATAATTGAGTTTCCAAAAACA 7624  
QY 3831 -----AGCTCTGGGTTTCATGCTCTAGCTGCTCG 3859  
Db 7625 TAGAAATTAACCCATCGTGGTTTTTACAATGCAGCTCTGGTTCATGCTCTAGCTGCTCG 7684  
QY 3860 ATTCCCTCCAAAATTAAGCAGCAGCCGAGNAGATGAAGGAATTTTGAAGCGTATGTT 3919  
Db 7685 ATTCCCTCCAAAATTAAGCAGCAGCCGAGNAGATGAAGGAATTTTGAAGCGTATGTT 7744  
QY 3920 TGAAGATCCAGAAAGGATCGATTCCTGAACCTTAATGAATTCCTTGGTGCAGGAAAGGT 3979  
Db 7745 TGAAGATCCAGAAAGGATCGATTCCTGAACCTTAATGAATTCCTTGGTGCAGGAAAGGT 7804  
QY 3980 TCAACATCCATCTGACATGGAAGTTTCTGGGTTGATAGTGAATCAAAAGAGCAGCTAAG 4039  
Db 7805 TCAACATCCATCTGACATGGAAGTTTCTGGGTTGATAGTGAATCAAAAGAGCAGCTAAG 7864  
QY 4040 GGAAGAGGAGTATATATCAACAAGATTCCTTGGTGCAGGAAAGGT 4159  
Db 7925 AGAAGAGGAGTATATATCAACAAGATTCCTTGGTGCAGGAAAGGT 7984  
QY 4160 GAGAGTTGGATCCTGTCATGTTCCAAATCAGACCCAGAGTTTCTCAACAAGAGTGA 4219  
Db 7985 GAGAGTTGGATCCTGTCATGTTCCAAATCAGACCCAGAGTTTCTCAACAAGAGTGA 8044  
QY 4220 AACAAAACTGTCAGTGGAACTACAAATCAGTGCAGGAACTGGAGCCCAAACTTGTCTGA 4279  
Db 8045 AACAAAACTGTCAGTGGAACTACAAATCAGTGCAGGAACTGGAGCCCAAACTTGTCTGA 8104  
QY 4280 TGAATTTGTTCTTCAAGGAATGAGAGACCGCATCTATGAAGATCTGTTGATGTTCA 4339  
Db 8105 TGAATTTGTTCTTCAAGGAATGAGAGACCGCATCTATGAAGATCTGTTGATGTTCA 8164  
QY 4340 GAAACAAAGAACTACAAATGTCGCTCAGAGAAACCTGATCTTGAAGAAACAAATGAATTG 4399  
Db 8165 GAAACAAAGAACTACAAATGTCGCTCAGAGAAACCTGATCTTGAAGAAACAAATGAATTG 8224  
QY 4400 GAAAGACTCTGTTGTTGTTGTCAGCCAAAGAAATGATACTAATTTGGCAAACTCTCTTC 4459  
Db 8225 GAAAGACTCTGTTGTTGTTGTCAGCCAAAGAAATGATACTAATTTGGCAAACTCTCTTC 8284  
QY 4460 CAGCAGCTATGAGCAGTGTGCGCTCGACGCCACCATGCTAGACATAGAGGATTTTGG 4519  
Db 8285 CAGCAGCTATGAGCAGTGTGCGCTCGACGCCACCATGCTAGACATAGAGGATTTTGG 8344  
QY 4520 AATCAAGGTGAAGCCCTTGGTTATTTCTTGGATGTCATCTCACCAGAGTTGACAGAGT 4579  
Db 8345 AATCAAGGTGAAGCCCTTGGTTATTTCTTGGATGTCATCTCACCAGAGTTGACAGAGT 8404  
QY 4580 AAAGAACAAAATGTACCCAGCGTTTTCAGACAAAGGTGGAGTGTTCAGAGAAAT 4639  
Db 8405 AAAGAACAAAATGTACCCAGCGTTTTCAGACAAAGGTGGAGTGTTCAGAGAAAT 8464  
QY 4640 CACAGGTGAGATCATACCATCAAGCCCTCATGAATTTACAGGAATGGATTTGTCGGTTC 4699  
Db 8465 CACAGGTGAGATCATACCATCAAGCCCTCATGAATTTACAGGAATGGATTTGTCGGTTC 8524

QY 4700 CTCAGGCCCGTCCAGAAACACAGGACGATATCCCAACATTAATCAACAAGATGAGATGAA 4759  
Db 8525 CTCAGGCCCGTCCAGAAACACAGGACGATATCCCAACATTAATCAACAAGATGAGATGAA 8584  
QY 4760 TAAAGCATCCCATTTTACAAAAAATTTTGGATCTGCTCAACTCTCTGAGGATGCT 4819  
Db 8585 TAAAGCATCCCATTTTACAAAAAATTTTGGATCTGCTCAACTCTCTGAGGATGCT 8644  
QY 4820 TACAAGCAGTCCAGTACCAAAACAGAACATCACGGATGGCTGTCTACCGAGAGATAGAAC 4879  
Db 8645 TACAAGCAGTCCAGTACCAAAACAGAACATCACGGATGGCTGTCTACCGAGAGATAGAAC 8704  
QY 4880 TGCTGAAGACGTGTTGATCCGCTCAGTAAACAATTCAGCTTACAGAACATATTTGGTGA 4939  
Db 8705 TGCTGAAGACGTGTTGATCCGCTCAGTAAACAATTCAGCTTACAGAACATATTTGGTGA 8764  
QY 4940 ATCAAAATTCAGCAATTAAGAGCAGACGCGCATTAACAAGGAGACAAATGCCATAT 4999  
Db 8765 ATCAAAATTCAGCAATTAAGAGCAGACGCGCATTAACAAGGAGACAAATGCCATAT 8824  
QY 5000 TTTACGAGAGATGAAGGGGACGCTTGTGTATGGGAAAAAGCCTTACAAGCCAGTGGATAG 5059  
Db 8825 TTTACGAGAGATGAAGGGGACGCTTGTGTATGGGAAAAAGCCTTACAAGCCAGTGGATAG 8884  
QY 5060 TCTCAGAAAAATGTTGAGGGGAAATGAAGGAGACAGGACGAGAAACAAATATGGA 5119  
Db 8885 TCTCAGAAAAATGTTGAGGGGAAATGAAGGAGACAGGACGAGAAACAAATATGGA 8944  
QY 5120 TTCCATAGACTATGAAGCAATAAGACGTTGCTAGTATCAGCGAGATTTCTGAGGCTATCAA 5179  
Db 8945 TTCCATAGACTATGAAGCAATAAGACGTTGCTAGTATCAGCGAGATTTCTGAGGCTATCAA 9004  
QY 5180 GGAAGAGGAGTCAATTAACATGTTGGCCGTACCAATTAAGGATTTCTTGAACGGATAGT 5239  
Db 9005 GGAAGAGGAGTCAATTAACATGTTGGCCGTACCAATTAAGGATTTCTTGAATTTTCACT 9064  
QY 5240 TAA 5242  
Db 9065 TGA 9067

RESULT 4  
US-09-840-743-6  
; Sequence 6, Application US/09840743  
; Publication No. US20030135890A1  
; GENERAL INFORMATION:  
; APPLICANT: Fischer, Robert L.  
; APPLICANT: Choi, Yoonhee  
; APPLICANT: Hannon, Mike  
; APPLICANT: Okamuro, Jack Kishiro  
; APPLICANT: Tatarinova, Tatiana Valerievna  
; APPLICANT: The Regents of the University of California  
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development  
; FILE REFERENCE: 023070-099910US  
; CURRENT APPLICATION NUMBER: US/09/840,743  
; PRIOR FILING DATE: 2001-04-23  
; PRIOR APPLICATION NUMBER: US 09/553,690  
; PRIOR FILING DATE: 2000-04-21  
; NUMBER OF SEQ ID NOS: 119  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 6  
; LENGTH: 1478  
; TYPE: DNA  
; ORGANISM: Arabidopsis thaliana  
; FEATURE:  
; OTHER INFORMATION: DMT 5' untranslated region  
US-09-840-743-6

Query Match 21.5%; Score 1478; DB 10; Length 1478;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 1478; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTTCTCCGGCATTTACTCGCTCGCAATCAGAAAGCTTAGATCGGTGAGCTTTTAGTCC 60







4598 TACCCGAGTCTCTTCAGTTGGACCTGTTGGAGATGTATCCATGCTGGAGAACATACAGA 4657  
5503 AATTTCTTTGGCAAGACTTTGCAAACTCGATCAACGAACACTGTATGATTAATGCAAGTTTCTCTG 5562  
4658 AATACCTCTGGCGAGGTTATGCAAGCTTGATCAACGGACATTTGATGAGCTTCACTATC 4717  
5563 AACTGATACGTTTGGAGAGTATTTTCACAAAGAGTAGACCAATTTGTAATGATGTC 5622  
4718 AATGATTAATTTTGGAGGTTATTTGTACAAAAGTAAGCCCAATTTGCAACGATGCC 4777  
5623 CAATGAGAGGAGTGCAGACACTTTGGCAGTGTCTATGCTAGTGCAGAGACTTGTCTTAC 5682  
4778 CAATGAGAGTCTGAGTGCAGCACTTTGCAAGTGCAATTTGGCAGTGCAGGCTCGCTCTC 4837  
5693 CGGACACAGAGAGAGGAGCTTAAACAGTGCAACTATTTCCGGTCCCTCCCGAGTCTTTC 5742  
4838 CTGACCTGAGAGAGAGGTTTGTATGATCTGGAACCCCAATAGCTGCAGAACTTCC 4897  
5743 CTCCTGTAGCCATCCGATGATAGAACTACCTCTTCCGTTGGAGAAATCCCTAGCAAGTG 5802  
4898 ACCAGACATATATAAGTTCTAGGCTGTAGTAAGTCAGCTTGAGTGGAAATTCAAACACT 4957  
5803 GAGCACCATCGAATAGAGAAACTGTGAACCAATAATTTGAAGAGCGGCTCGCCCGGC 5862  
4958 GTCACCATGTTATGAACAATCCCGAGCAATCATTTGAGGAGCCAGAACCCAGAACCTG 5017  
5863 AAGAGTGCACTGAATAACCGAGAGTGATATTTGAAGATGCTTACTACATGAGGACCTG 5922  
5018 AACATGAGACAGAGAGATGAAGAGTGTGCAATAGAGGATAGTTTGTGATGATCCAG 5077  
5923 ACGAGATCCCAACATTAACCTCAACATTTGAACAGTGTGATGATGCTACGCGGAACACA 5982  
5078 AAGAATCCCTACTCAAGCTTAATTTTGAAGAGTTTACACAGAACCTGGAAGAGTTATA 5137  
5983 TG---GAAAGAAACATGAGCTCCAAAGAGTGACATGTCCAAAGCTTTGGTTGCTTGC 6039  
5138 TGCAAGCAATTAACATTTGAGATGCTGATATGTCAAGGCTTTGGTGCATATA 5197  
6040 ATCCAAACACTACTTCTATTCCTCAACTCCAACTAAAGAACTATGAGCGTCTCAGGACAG 6099  
5198 CTCCTGAAGTTGCTTCTATCCCACTCTCTAGCTCAAGAAATGTCAGTCCCTTAAGGACAG 5257  
6100 AGCACAAGTGTACAGCTCCAGATTCACATCGTCTCTTGATGATGATGAAGAG 6159  
5258 AGCACAAGTGTATGAATGCGCAGATTCACATCCACTCTTGAAGGATTCACCAAGAG 5317  
6160 AACCAAGATGATCCAAAGTCTTATCTTAGCTATATGACACAGCTGCAACAGGAAAT 6219  
5318 AACCAAGATGATCTTGGCCATACCTACTCTCTATATGAGACCCAGCTGAAACAGCTCAAT 5377  
6220 CGGCAACCGCTGAAACAGAGTGTGGAGGAAAGCGTCTGGCAAAATGTCTTTGACG 6279  
5378 CAATGATGACCTAAGTCCGCTGCAATTCACAGAGAAATGGTGAATGTGCAAGCA 5437  
6280 AGACTTGTCTGAGTGAACAGTCTGAGGAGCAAACTCAGACAGAGTTCGAGAACTC 6339  
5438 ATACATGCTTTAGTTGCAACAGTATAGAGAGCGCGCCCAAAAGTTCGAGGACAC 5497  
6340 TTCTCATACCTTGTCCGACTGCAATGAGAGGAAAGTTTCCGCTCAACGGGACATATTTCC 6399  
5498 TGCTGATACCATCCGCAACAGCAATGAGAGGAGCTTTCCACTTAATGGGACATATTTTC 5557  
6400 AAGTCAACGAGTATTTGAGACACAGCTGAGTCCAGTCTCAAAACCCATCGATGTTCTAGAG 6459  
5558 AAGTCAATGAGGATTTGCTGATCATGACTCAAGCCGGAACCCGATTTGATGTTCCAAGGA 5617  
6460 ATTGATATGGAATCTCCCAAGAGGACTGTTTACTTGGAAACATCATGATTAATCAATAT 6519  
5618 GTTGATATGGAATCTCCCTAGGAGAACTGTTTACTTTGGAACTTTCAATTTCCGACAAAT 5677  
6520 TCAGAGGTTCTTCAACGGAGAGATACAGTTCTGCTTTTGGAAAGGATTCGATGTCGCC 6579  
5678 TTAAGGTTTGAACTGAGAAATACAAATTTGCTTTTGGAGAGGATTTGTGTCGGTGA 5737

QY 6580 GTGATTCGAACAGAGCAAGAGCACCGGTCCTAATTAATGCAAGTTGCAATTTCTCTG 6639  
Db 5738 GAGGCTTTGATAGGACATCAAGAGCACCCAGACCACTGTATGCAAGACTCCACTTTCCAG 5797  
QY 6640 CGAGCAATTCGAAGAACCAACAAA 6663  
Db 5798 CAAGCAAAATTACCAGGAATAAAA 5821

## RESULT 7

US-10-425-115-107694  
; Sequence 107694, Application US/10425115  
; Publication No. US20040214272A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; TITLE OF INVENTION: Plants  
; FILE REFERENCE: 38-21(53222)B  
; CURRENT APPLICATION NUMBER: US/10/425,115  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 369326  
; SEQ ID NO 107694  
; LENGTH: 2775  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: MPT4577\_29715C.1  
US-10-425-115-107694

Query Match 9.8%; Score 676.2; DB 18; Length 2775;

Best Local Similarity 63.8%; Pred. No. 1.3e-164;

Matches 1042; Conservative 0; Mismatches 588; Indels 3; Gaps 1;

QY 5034 AAAAGCCCTACAGCCAGTGGGATGCTCAGAAAAGATGTGGAGGGGAATGAAGGAGA 5093  
Db 523 AAAACGAAAATTTATGCTGGGACAGTTTACGAAAAGAGTGTCTTAATGTTGGGAT 582  
QY 5094 CAGGAACGAAACAAAACAAATATGATTCATAGACTATGAAGCAATAGAGCTCTAGT 5153  
Db 583 AAACAAAGAAATAATATGATGCAAGGATACTGTTGATGGGAGGAGTTAGGCAACAGAA 642  
QY 5154 ATCAGCGAGATTTCTGAGGCTTATCAAGGAAAGAGGATGAATAAATGTTGCCGTACGA 5213  
Db 643 GTCCGAGAAATATCTGAAACTATCAGAGAGAGGAAATGAATTAATGCTAGCAGACGA 702  
QY 5214 ATTAAGGATTTCTAGAAACGGATAGTTAAAGATCATGTGTGATTCGACCTTGAATGGTTG 5273  
Db 703 ATAAAGGAATTCCTGAACCGATTTGGTGACAGACCATGGAGGTATTGATCTTGAATGGCTA 762  
QY 5274 AGAGATCTCTCTGATAAAGCCAGGACTATCTTTGAGCATAGAGGCTCGGTTG 5333  
Db 763 AGAGATGTTCCACCGGACAAAGGACTTCCTTCTAAGCATATAGAGGGCTTGGACTC 822  
QY 5334 AAAAGTGTGAATGCGTGGAGCTCTTAACTCTTCACTCCAAATCTTGTCTTCCCTGTTGACAG 5393  
Db 823 AAAAGTGTGAGTGGTTCGCTCTCTTGACGCTACATCATATGGCTTTTCCAGTGGACACA 882  
QY 5394 AATGTTGAAAGATAGCAGTTAGGATGGGATGGGTGCTCTACAAACCCCTACCTGAAATCA 5453  
Db 883 AATGTTGTCGATATGTGTGAGGCTTGGATGGGTGCGCTTCAACCATTTGCCAGAGTCT 942  
QY 5454 CTTGAGTTACCTCTCGGAGCTATACCCAGTCTCGAGTCCATCCCAAAATTTCTTTGG 5513  
Db 943 CTTGAGTTGACCTATTGGAAATGTATCCCATGTGGAGGACATACAGAGATGACCTTTGG 1002  
QY 5514 CCAAGACTTTGCAAACTCGATCAACGAACTGTATGAAATTTACACTACCACTGATTAAG 5573  
Db 1003 CCTGCACTATGCAAGTAGATCAACGTACATTTGTATGAGCTTCACTACCAATGATTAAT 1062

QY 5574 TTTGGAAAGGTATTTTGCACAAAGAGTAGACCAAATTTGTAATTCATGTCTCCCAATGAGGGA 5633  
Db |||||  
QY 1063 TTTGGAAAGGTATTTTGCACAAAGAGTAGACCAAATTTGTAATTCATGTCTCCCAATGAGGGA 1122  
Db |||||  
QY 5634 GAGTGCAGACACTTTGCGAGTGTATGCTAGTGCAGAGCTTCTTTACCGGCACAGAG 5693  
Db |||||  
QY 1123 GAATGTAAGCACTTTGCTAGTGTATTTGCAAGTGTCTAGGCTTCTCTCCCGCACCTGAA 1182  
Db |||||  
QY 5694 GAGAGGAGCTTAAACAAGTGCAACTATTTCCGGTCCCTCCGAGTCCCTTCTCTCTAGCC 5753  
Db |||||  
QY 1183 GAAAAAGCTTTGGCTACATCGGAGATCCAAATGTTGTAGAGTTTGTCAACAAACATAC 1242  
Db |||||  
QY 5754 ATCCCGATGATAGAACTACCTCTTCCGTTGGGAAATCCCTAGCAAGTGGAGCACCATCG 5813  
Db |||||  
QY 1243 ATAAATTCAGGGGCTGTGGCGAACTTGAGTGAGTGCGAACTATCTTAAGCATGCTGTT 1302  
Db |||||  
QY 5814 AATAGAGAAACTGTGAACCAATTAATTAAGACCCGGCTCGCGGGCAAGAGTGCACT 5873  
Db |||||  
QY 1303 TGTGGTAACCTGCAGCGCTTCAATTGAGGAACCACTGAGGCCAGAACCTGAACCTGAAAT 1362  
Db |||||  
QY 5874 GAAATAACCGAGAGTGATATTTGAAGATGCTTACTCAATGAGGACCTCGACGATCCCA 5933  
Db |||||  
QY 1363 GTAGAGCGAAGACGCTGCAATAGAGGATTTCTTAATGAAGACCTGATGAATTCCT 1422  
Db |||||  
QY 5934 ACAATAAACTCAACATTTGAACAGTTTGGAACTCTTACGGGAACACATGGAAGAAAC 5993  
Db |||||  
QY 1423 ACTATTAATCTTAATTTAGGAGGTTTACACAGAACTTGAAGAACTATATGCAAGCAAC 1482  
Db |||||  
QY 5994 A---TGGAGCTCCAAGAGTGACATGCTCCAGGCTTTGGTTGCTTTGCAATCCAAACT 6050  
Db |||||  
QY 1483 CATGTTGAGATGAGTATGCTGACATGTCAAAGGCAATGGTTGCCATCACGCTGATGCT 1542  
Db |||||  
QY 6051 ACTTCTATTCCAACTCCCAAACTAAAGAACTTAGCCGCTCTCAGGACAGAGCACCAAGTG 6110  
Db |||||  
QY 1543 GCTTCCATTTCCAACTCCAAAGCTCAAGATGTCAATCGTCTGAGACAGACACCAAGTT 1602  
Db |||||  
QY 6111 TAGAGCTCCAGATTCACATGCTCTCTTGTATGATGATGATGATGATGATGATGATGATGAT 6170  
Db |||||  
QY 1603 TATGAATCCAGATTCACACCTCTCTGGAAGGATTCGAACAGAGAGAACCCAGATGAT 1662  
Db |||||  
QY 6171 CCAAGTCTTATCTCTTACTATATGACACACAGAGTGAAACAGCGAAATTCGCGACACCG 6230  
Db |||||  
QY 1663 CCTGTCCATATCTCTTCCATATGAGACCCAGGTGAACCTGCACATCATCGATGCC 1722  
Db |||||  
QY 6231 CCTGACAGAACTGTGGAGGAAAGCGTCTGGCAAAATGTGCTTTGACGAGACTTGTCT 6290  
Db |||||  
QY 1723 CCAAGACATCTGTGATTCAGGGGAGACGGGTAGACTATGTGGAAGTTCAACATGCTTT 1782  
Db |||||  
QY 6291 GAGTGTAAAGTCTGAGGAGCAAACTCACAGACAGTTCCAGGAACTCTTCTGATACCT 6350  
Db |||||  
QY 1783 AGTTGCAACATATACGAGAAATGACGGCTCAGAAAGTCAGAGGAACACTTTTATACCA 1842  
Db |||||  
QY 6351 TGTCCGACTGCCATGAGAGGAAGTTTCCGCTCAACGGGACATATTTCCAAAGTCAACGAG 6410  
Db |||||  
QY 1843 TGCGAAGCAAGCAATGAGAGGAAGCTTCCCACTTAATGGAGCTATTTCAAGTTAATGAG 1902  
Db |||||  
QY 6411 TTAATTTGAGACCCAGCTCCAGTCTCAACCCATCGATGTTCTTAGAGATGATGATG 6470  
Db |||||  
QY 1903 GTATTTGCTGACCATGTCTCAAGTCAAAATCCAAATGATGTGCCACGAAAGTTGGATGG 1962  
Db |||||  
QY 6471 GATCTCCCAAGAGGACTGTTTACTTTCGGAACATCAGTAAACATCAATATTTACAGAGGCTT 6530  
Db |||||  
QY 1963 GACCTCCCAAGCAAGCACTGTTTACTTTTGGAACTCAGTCTCTACATATTTACAGAGTTTA 2022  
Db |||||  
QY 6531 TCACCGAGCAGATACAGTCTCTCTTTTGGAAAGGATTCGATGTGTCGTCGATTCGAA 6590  
Db |||||  
QY 2023 ACGACTGAAGAGATACAAACGATGCTTTTGGAGAGGATTTGTTGCGTGAGGGCTTTGAT 2082  
Db |||||  
QY 6591 CAGAAGACAGAGCACCGCGTCCATTAATGCGAAGGTTGATTTTCTCTGCGACCAATTG 6650  
Db |||||  
QY 2083 AGGACAGTGGGGCACCAAGGCCCTTTATGCAAGGTTGCAATTTCTCTGTGACCAAGGTT 2142  
Db |||||  
QY 6651 AAGAACACAAAA 6663

Db 2143 GTTAGAGGCAAAA 2155

RESULT 8

US-10-425-114-31374  
; Sequence 31374, Application US/10425114  
; Publication No. US2004003488A1  
; GENERAL INFORMATION:  
; APPLICANT: Zhou, Jingdong  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E.  
; APPLICANT: Tabaska, Jack E.  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
; FILE REFERENCE: 38-21(53313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 73128  
; SEQ ID NO 31374  
; LENGTH: 2380  
; TYPE: DNA  
; ORGANISM: Zea mays  
; FEATURE:  
; OTHER INFORMATION: Clone ID: UC-ZMFLB73161D01\_FLI  
US-10-425-114-31374

Query Match 9.6%; Score 657; DB 17; Length 2380;  
Best Local Similarity 63.1%; Pred. No. 1.2e-159;  
Matches 1030; Conservative 0; Mismatches 600; Indels 3; Gaps 1;

QY 5034 AAAAGCCTCAAGCCAGTGGGATAGTCTCAGAAAAAGATGTGGAGGGAATGAAGGAGA 5093  
Db |||||  
QY 519 AAAAGAAAACTGATGCTGGGACAGTTTACGGAAGAAAGTCTTCTTAATGTGGGAC 578  
Db |||||  
QY 5094 CAGAACGAAACAAAAACAATATGGATTCCATAGCATGTGAACAATAGACGTGTAGT 5153  
Db |||||  
QY 579 AAACAAAGATCATGATGCAAGGATCTGTTGATTGGAGGCGATTAGGCAAGCAGAA 638  
Db |||||  
QY 5154 ATCAGCGAGATTTCTGAGGCTATCAAGGAAAGGAGGATGAATAACATGTTGGCCGTACGA 5213  
Db |||||  
QY 639 GTACGGGAAATATCTGAAACCATCAGAGAGAGGAATGAATAATATGCTAGCAGAACGG 698  
Db |||||  
QY 5214 ATTAAGGATTTCTAGAACGGATAGTAAAGATCATGTTGGTATCGACCTTGAATGGTTG 5273  
Db |||||  
QY 699 ATAAAGGAATCTTGAACCGATTGGTGACAGACCATGGAAGCATTCATCTTGAATGGCTA 758  
Db |||||  
QY 5274 AGAGAAATCTCTCTGATAAAGCCAAAGGACTATCTCTCAGCATAGAGGTCTGGGTTTG 5333  
Db |||||  
QY 759 AGAGATGTTCAACACAGACAAAGCAAGGACTTCTCTTAAGCATTTAGAGGCTTGGACTC 818  
Db |||||  
QY 5334 AAAGTGTGAATGCTGTCGACTCTTAAACATCCCAATCTTCTTCCCTGTTCACAG 5393  
Db |||||  
QY 819 AAAAGTGTGAGTGTCTCGCCTCTTGACATACATCATATGCTTTCCAGTGGACACA 878  
Db |||||  
QY 5394 AATGTTGGAAGATAGCAGTATAGGATGGGTCCTCTACACCCCTACTCTGATCA 5453  
Db |||||  
QY 879 AATGTTGGTGGATATGTGTGAGGCTTGGATGGGTCCTCAACCACTGCAGAGTCT 938  
Db |||||  
QY 5454 CTTCAAGTACACTCTCTGAGGCTATACCCAGTGTCTCGAGTCCATCCAAATAATTTCTTGG 5513  
Db |||||  
QY 939 CTTCAAGTGCACCTCTTGGAAATGTATCCATGCTGGAGCACATACAGAGTACTCTTGG 998  
Db |||||  
QY 5514 CCAAGACTTGCAGAACTCGATCAAGCACTGTATGAATTAACATACCACTGATTTAG 5573  
Db |||||  
QY 999 CTTCAAGTGCAGAACTAGATCAAGTACATTTGTATGAGTCTTCACTACCAATGATTTACT 1058  
Db |||||  
QY 5574 TTTGAAAGGTTATTTTGACAAAGAGTAGACCAAATTTGTAATGCTATGCTTCCCAATGAGAGA 5633  
Db |||||  
QY 1059 TTTGAAAGGTTTCTGCAACAAAGTAAGCCTTAATTCGAATTCATGTCTCAATGAGAGCT 1118  
Db |||||

```
QY 5634 GAGTCGACGACCTTTGCCAGTCTTATGCTAGTCAAGACTTGCCTTTACCGGCACGAG 5693
Db 1119 GAATGTAAGCACTTTGCTAGTGCAATTTGCAAGTGTAGGCTTGCCTTCTCCACCTGAA 1178
QY 5694 GAGAGGAGCTTAAACAGTGCACACTATTCCGGTCCCTCCCGAGTCTTCTCTCTAGCC 5753
Db 1179 GAAATATGTTGTTACATTTGGAAGATCCAAATGTTGAGAGTTTCTCACCACATAC 1238
QY 5754 ATCCCGATGATAGACTCTCTTCCGTTGGAGAAATCCCTAGCAAGTGGAGACACATCG 5813
Db 1239 ATAAACTCAGGGAGTGTGGCCAACTTGAGTGGAGTGCATAATATCTCTAAACATGCTGT 1298
QY 5814 ATAGAGAAACTGTGAACCAATAATTGAAGAGCGGCTCCCGGCGCAAGTGCCT 5873
Db 1299 TCTGTAATCATCAGCAATCATCAGGAACCACTGAGCCCAAGATGTGAATCTGAAAT 1358
QY 5874 GAAATAACCGAGAGTGATATTGAAGATGCTTACTCAATGAGGACCCCTGACGAGATCCCA 5933
Db 1359 ATAGAGGCACATGAGGTGCAATTCAGGATTTCTTTGTGAAGATCTGATCAATCTCT 1418
QY 5934 ACAATAAACTCAACATTGAACAGTTTGGATGACTCTACGGGAACACATGGAAGAAAC 5993
Db 1419 ACCATTAACTTAAATATCAGGAGTTTCAACAAAACCTTGAAGGACTATATGCAAGCAAC 1478
QY 5994 A---TGGAGCTCCAAGAGGTGACATGTCGAAGGCTTTGGTTGCTTTGCATCCAACT 6050
Db 1479 ATGTTGAGATTGAATATGCTGACATGTCGAAGGCAATGGTTGCCATCAGCCTGATGCT 1538
QY 6051 ACTTCTATTCCAACTCCCAAACTAAAGAACTATTAGCCGTCTCAGGACAGAGCACCAAGTG 6110
Db 1539 GCTTCCATTCCAACTCCAAAGCTCAAGATGTCAATGCTCTGAGGACAGAACCAAGTT 1598
QY 6111 TAGAGCTCCAGATTCACATCGTCTCTTGTGATGATGATGATAAAGAGAACCAAGATGAT 6170
Db 1599 TATGAATGCCAGATTCACACCTCTCTGGAAGGATTCGAACAGAGAGAACCAAGATGAT 1658
QY 6171 CCAAGTCTTATCTTACTGATATGAGACACAGGTGAACAGCGAATTCGSCAACACG 6230
Db 1659 CCTGTCCATATCTCTTCCATATGGACCCAGGTGAACACTGCAATCGATCGATGCC 1718
QY 6231 CCTGAACAGAGTGGGAGGAAAGCGTCTGCAAAATGTGCTTTGACGAGACTTGTCT 6290
Db 1719 CCAAGACATCTCTGATTACGGGAGAGCGGTAGACTATGTGGAAGTTCAATGCTTT 1778
QY 6291 GAGTGAACAGTCTGAGGAGAACAACTCAGACAGTTTCGAGGAATCTTCTGATACCT 6350
Db 1779 AGTTGCAACAATATACGAGAAATGCAAGGCTCAGAAAGTCAGAGGAACACTTTTGATA 1838
QY 6351 TGTCGGACTGCCATGAGGAGATTTTCCGCTCAACGGGACATATTTCCAGTCAACGAG 6410
Db 1839 TGCCGAACAGCAATGAGGAGAGCTTCCCACTTAATGGAGACGTAATTTCAAAGTTAATG 1898
QY 6411 TTATTTGAGACACAGAGTCCAGTCTCAAAACCCATCGATGTTCTTAGAGATTGGATATGG 6470
Db 1899 GTATTTGCTGACCATTTGCTCAAGTCAAAATCAAATTGATGTCACAGAGTTGGATTGG 1958
QY 6471 GATCTCCCAAGAGAGCTTTTACTTTCGGAACATCAGTAAACATCAATATTCAGAGGCTT 6530
Db 1959 GACCTCCCAAGAGCAACTGTTTACTTTTGAACCTCAGTCTCTCAATAATTCAGAGGTTA 2018
QY 6531 TCAACGGACAGATACAGTTCTGCTTTTGGAAAGGATTCGATGTCGTCGATTCGAA 6590
Db 2019 ACGACTGAAGAGATCAACGATGCTTTTGGAGAGGATTTGTTTGGGCGGCTTTGAT 2078
QY 6591 CAGAAGACAGAGCAGCGGCTCCATTAAATGGAAGGTTGCAATTTCTTCGAGCAAAATG 6650
Db 2079 AGGACAGTGAAGGACCAAGGCCCTTTATGCAAGGTTGCAATTTCTCTGTCAGCAGGTT 2138
QY 6651 AAGAACAACAAA 6663
Db 2139 GTTAGAGGCAAAA 2151
```

## RESULT 9

US-10-437-963-12410/c  
; Sequence 12410, Application US/10437963  
; Publication No. US20040123343A1

## GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated with  
; FILE OF INVENTION: Plants and Uses Thereof for Plant Improvement

; FILE REFERENCE: 38-21(53221)B

; CURRENT APPLICATION NUMBER: US/10/437,963

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 12410

; LENGTH: 3769

; TYPE: DNA

; ORGANISM: Oryza sativa

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT\_MBT4530\_1853C.1

US-10-437-963-12410

Query Match 9.4%; Score 643; DB 18; Length 3769;

Best Local Similarity 64.3%; Pred. No. 6.9e-156;

Matches 1031; Conservative 0; Mismatches 560; Indels 12; Gaps 4;

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QY 5050 AGTGGATAGTCTCAGAAAAGATGTGGAGGGGATGAAGAGGAGACAGAACGAAACAAA 5109
Db 1821 ACTGGGATAATTTAGAAAAGAGTGTGCAATCATGGGAACAGACAAAGAGTGACA 1762
QY 5110 ACAATATCGATTCCATAGACTATGAAGCAATAAGACGTCTAGTATCAGCGAGTTCTG 5169
Db 1761 AAGCGAAGACACAAATCGATTGGGAGGAGTATGCAAGCAAAATGTGAATGAATCTT 1702
QY 5170 AGGCTATCAAGAAAGAGGGATGAATAACATGTTGGCGGTACGAATTAAGGATTTCTAG 5229
Db 1701 TTGTTATCAAGAGTGAGGAATGAATACATGCTAGCCGACGGAATAAGACTTTCTAA 1642
QY 5230 AACGATAGTTAAAGATCATGTGTGATCGACCTTGAATGTTGAGAGATCTCTCTCTG 5289
Db 1641 ACCGCTGTGAGAGACCATGAGCATTTGATCTTGAATGGCTAAGAGATATTGAACCG 1582
QY 5290 ATAAAGCCAAGGACTATCTTTGAGCATAAGAGGTCTGGTTTGAAGAGTTGAATGCG 5349
Db 1581 ACAAGCAAGAGGCTTCTCTGAGCATTAGAGGCTTGGACTAAAAGACGAGAGTGTG 1522
QY 5350 TCGGACTCTTAACACTCCACAATCTTGCTTTTCCCTGTTGACACGAATGTTGGAAGGATAG 5409
Db 1521 TTGCTCTTTTGCACACTACACCAATGCTTTTCCAGTGCACACAAATGTTGACGGATAT 1462
QY 5410 CAGTTAGATGGATGGGTGCTCTAACAACCTTACCTGATCACTTCACTTACACCTCC 5469
Db 1461 GCGTAGGCTTTGGATGGGTGCTTCAACCCCTTCCGGAGTCTCTTCAACTACACTTGT 1402
QY 5470 TGGAGCTATACCCAGTCTCGAGTCCATCCAAAATTTCTTTGGCCAAAGACTTTGCAAC 5529
Db 1401 TGGAACTGTACCCCTTGTCTGGAAACACATACAGAAATATATTGGCTCGATTGTGCAAGC 1342
QY 5530 TCGATCAACGAACACTGTATGAATTTACACTACCAACTGATTAACGTTTGGAAAGGATTTT 5589
Db 1341 TTGATCAATTTGATTTGATGAGTCTTCACTACCAATGATTAACCTTTTGGAAAGGTTTCT 1282
QY 5590 GCAACAAAGATGAGCAAAATTTGTAATGATGTCCATGAGAGGAGAGTGCAGACACTTTG 5649
Db 1281 GTTCAAAAAGCAAGCCTAATTTGCAATTCATGTCCAAATGAGAGCTGAGTGTAGCATTTTG 1222
QY 5650 CCAGTGTCTTATGCTAGTCAGAGCTTGTCTTTACCGGCACACAGAGGAGGAGCTTTAACAA 5709
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Db 1221 CTAGTGCATTGCAAGTGCAAGGCTCGCTCTCTCTGAGACCTTCAAAAGAGACTTCTAAAC 1162  
 Qy 5710 GTGCAACTATTCGGGTCCCTCCGAGTCCCTTCTCTGTAGCAATCCCGATGATAGAC 5769  
 Db 1161 CAGAAATCAAAATGATGC-AGAGAGAGTCAAAAAATACACATTCAGAGGCTATG 1103  
 Qy 5770 TACCTCTCCGTTGGAGAAATCCTAGCAAGTGGAGCACCATCGAATAGAGAAACTGTG 5829  
 Db 1102 GGCCAACTTAGCTGGAACACGAAACCTCTGGG-----CATGTTATGTGACCAATAAC 1048  
 Qy 5830 AACCAATAATTAAGAGCGGCTCCGCGGGCAAGAGTGCATGAAATAACCGAGAGTG 5889  
 Db 1047 AACCTATATCGAAGAACCATCAACCCAGAACCTGAACCTGACATTTGAGAGGCAAGAG 988  
 Qy 5890 ATATTGA---AGATGCTTACTACAATGAGAGCCCTGACGAGATCCCAACAATAAACTCA 5946  
 Db 987 AGGCCGAATAGAGGATTTTTCAGTGAAGATCCCGATGAAATTCCTATTATAATCTTA 928  
 Qy 5947 ACATTGAACAGTTTGAATGACTCT---ACGGGAACACATGGAAGAAACATGGAGCTCC 6003  
 Db 927 ATGTCAGAGAGTTTGACAGAACTTGAAAGATTATATTTCATGCAAAACATATCGAGATCG 868  
 Qy 6004 AAGAAGTGACATGTCCAAAGGCTTTGGTTGCTTTCATCCCAACACTACTTCTATTCAA 6063  
 Db 867 AGATGCTGACATGTCGAATGCACTGGTTGCCATAGCCCTCAAGCTGCTTCAGTTCCAA 808  
 Qy 6064 CTCCTAAAATAAGAAACATTAGCCGCTCAGGACAGAGCACCAAGTGTACGAGCTCCAG 6123  
 Db 807 CTTTCAAGCTCAAGAAATGTCAACCGCTTGAGGACTGMAACCAAGTTTATGATGTCAG 748  
 Qy 6124 ATTCACATCGTCTCTTGATGTATGATATAAGAGAACAGATGATCCAAAGTCTTTATC 6183  
 Db 747 ACTCACACCCCTTACTTGAAGGATTTGATCAAGAGAACCAAGATGATCCCTCCCATATC 688  
 Qy 6184 TCTTAGCTATATGGACACAGGTGAAACAGCGAATTCGGCAACACCGCTCGACAGAGT 6243  
 Db 687 TTTCTTTCTATATGGACCCAGGTGAACGGACATCACTGATGCAACCAAGACATTTT 628  
 Qy 6244 GTGAGGGGAAGCGTCTGCAAAATGTGCTTTGACGAGACTTGTGAGTGTAAACAGTC 6303  
 Db 627 GCAACTCCAGGAAATCTGTAACTCTGTGAGAGTTTCGACATGCTTTAGCTGCAACAGTA 568  
 Qy 6304 TGAGGGAAGCAACTCACAGACAGTTCGAGGAACCTCTGATACCTTGTGCGAGTGGCA 6363  
 Db 567 CACGGGAATGCACTCTCAGAAAGTTAGGAACCCCTTCTGATACCATGCGGACAGCGA 508  
 Qy 6364 TGAGAGGAAGTTTCCGCTCAACGGGACATATTTCCAAAGTCAACGAGTTATTTGACAGC 6423  
 Db 507 TGAGAGGAAGCTTTTCACTTAAGGGACATATTTCAAGTTAATGAGGTATTTGCTGATC 448  
 Qy 6424 ACGAGTCCAGTCTCAAAACCATCGATGTTCTAGAGATGGATATGGGATCTCCCAAGAA 6483  
 Db 447 ACTACTCCAGGAAATATCCATTTGATGTTCCAGGAAGTTGGATATGGAACCTCCCAAGAC 388  
 Qy 6484 GGACTGTTTACTTCCGAACATCAGTAACATCAATATTCAGAGTCTTTCAACGAGAGAGA 6543  
 Db 387 GAACAGTTTACTTTGGAACCTCAGTTCTCAATATTTGAGGTTTGTCACTGGAAGAGA 328  
 Qy 6544 TACAGTCTGCTTTTGGAAAGGATTCGATGTGTCCTGAGATTCGAAACAGAAACAGAG 6603  
 Db 327 TACAACATTTGTTTGGAGAGGATTTGTGTCGTGAGGGCTTTGATAGGGAATTTAGGG 268  
 Qy 6604 CACCGCTCCATTATATGCAAGGTTGCAATTTTCTCTGCGAGCA 6646  
 Db 267 CACCAAGACCCCTTACGCAAGGCTTCATTTTCTGCTAGCAA 225

RESULT 10

US-10-425-114-33288  
 ; Sequence 33288, Application US/10425114  
 ; Publication No. US2004003488A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Liu, Jingdong

; APPLICANT: Zhou, Yihua  
 ; APPLICANT: Kovalic, David K.  
 ; APPLICANT: Screen, Steven E  
 ; APPLICANT: Tabaska, Jack E  
 ; APPLICANT: Cao, Yongwei  
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with  
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement  
 ; FILE REFERENCE: 38-21(53313)B  
 ; CURRENT APPLICATION NUMBER: US/10/425,114  
 ; NUMBER OF FILING DATE: 2003-04-28  
 ; SEQ ID NO 33288  
 ; LENGTH: 2294  
 ; TYPE: DNA  
 ; ORGANISM: Zea mays  
 ; FEATURE:  
 ; OTHER INFORMATION: Clone ID: UC-ZMFLM017089A12\_FLI  
 ; US-10-425-114-33288

Query Match 8.4%; Score 575; DB 17; Length 2294;  
 Best Local Similarity 64.3%; Pred. No. 2.7e-138;  
 Matches 879; Conservative 0; Mismatches 485; Indels 3; Gaps 1;

Qy 5300 GGACTATCTCTTGAGCATAAGAGTCTGGGTTTGAAGAGTGTGAATGCGTGGAGCTCTT 5359  
 Db 504 GGACTTCTTCTAAGCATTTAGAGGGCTTGGACTCAAAAGTGTGAGTGGCTTCTCTCTT 563  
 Qy 5360 AACACTCCAAATCTTGTCTTCCCTGTGTGACAGAAATGTTGGAAGGATAGCAGTTAGGAT 5419  
 Db 564 GAGCTACATCATATGCGCTTTTCCAGTGGACACAAATGTTGTGCGATATGTGTAGGCT 623  
 Qy 5420 GGGATGGGTCCCTTCAACCCCTACTCGAATCAGTTCAGTTACACTCTCTGAGCTATA 5479  
 Db 624 TGGATGGGTCCGCTTCAACCATTTGCGAGTCTCTTCTAGTTCAGCTTATTTGAAATGTA 683  
 Qy 5480 CCAGTGTCTGAGTCCATCCAAAATTTCTTTGGCCCAAGACTTTGCAAACTCGATCAACG 5539  
 Db 684 TCCCATGCTGGAGCACATACAGAAATACCTTTGGCCTCGACTATGCAAGCTAGATCAACG 743  
 Qy 5540 AACACTGTATGATTAACACTTACCACTGATTTAGCTTTGGAAGGATTTTGGCAAAAGAG 5599  
 Db 744 TACATTTATGAGCTTCACTTACCAATGATTTACTTTTGGAAAGGTTTCTGCAAAAAAG 803  
 Qy 5600 TAGACAAATTTGATGTCATGTCCAAATGAGAGGAGAGTGCAGACACTTTGCCAGTCTTA 5659  
 Db 804 TAAGCTTAATTTGCAATTCATGTCCTTGTGAGAGTGTGATGAGCACTTTGCTAGTCAAT 863  
 Qy 5660 TGCTAGTGAAGACTTTGCTTTTACCGGCAACGAGGAGAGGCTTAAAGTGCACATAT 5719  
 Db 864 TGCAGTGTAGGCTTGTCTTTCCGCACTGAAAGAAAACGTTTGGCTACATCGGAGGA 923  
 Qy 5720 TCCGGTCCCTCCGAGTCTCTTCTCTGAGGCTCCGATGATAGACTACTCTTCTTCC 5779  
 Db 924 TCCAAATGTTGAGAGTTTGTGCAACAAATACATAAATTCAGGGGCTGTTGGGGAAT 983  
 Qy 5780 GTTGGAGAAATCCCTAGCAAGTGGAGCACCATCGAATAGAGAAAACCTGTGAACCAATAAT 5839  
 Db 984 TGAGTGGAGTGGAACTATCTTAAGCATGCTGTTTGTGTGTAACCTGCAGCCGCTTCAATGA 1043  
 Qy 5840 TGAAGAGCGGCTCGCCGGGCAAGAGTGCATGAAATACCGAGAGTGATTTGAAGA 5899  
 Db 1044 GGAACCACTTGAGCCAGAACCTGAAACCTGAAATGTAGAGGCGAAGGCGGTGCAATAGA 1103  
 Qy 5900 TGCTTACTACAATGAGGACCTTGAGGAGATCCCAACAATATAAACTCAACATTGAACAGTT 5959  
 Db 1104 GGATTTCTTTAATGAAGACCTCTGATGAAATCTCTACTATTATCTTAATATTGAGAGTT 1163  
 Qy 5960 TGAATGACTCTACCGGAAACATGGAAGAAACA---TGGAGCTCCAAAGAGGTGACAT 6016  
 Db 1164 TACACAGAACTTGAAGAACTATATCAAGCAACCATGTTGAGATTGAGATGCTGACAT 1223  
 Qy 6017 GTCCAGGCTTTGGTTGCTTTCATCCCAACTACTTCTATCCCACTCCCAACTAAA 6076



QY 6437 CAAACCATCGATGTTCTTAGAGATTGGATATGGGATCTCCCAAGAGGACTGTTTACTTT 6496  
Db |||||  
1644 AAATCCAAATTGATGTCCACGAAGTTGGATATGGGACCTCCCAAGAGGACTGTTTACTTT 1703  
QY 6497 CGGAACATCAGTAACATCAATATTACAGAGTCTTTTCAACGGAGCAGATACAGTTCTGCTT 6556  
Db |||||  
1704 TGGAACTCAGTTCCTTACCAATATTTAGAGGTTTAAACGACTGAAGAGATACAACAATGCTT 1763  
QY 6557 TTGGAAGGATTGCTATGTCGTTGATTCGAACAGAGAGACAAGAGCAGCGGTCCTATT 6616  
Db |||||  
1764 TTGGAGAGGATTCGTTTGTGTAGGGCTTTGATAGGACAGTAAGGGCCCAAGGCCCT 1823  
QY 6617 AATGGCAAGGTTGCATTTTCTCGAGCAAAATTTGAAGAACAAACAAA 6663  
Db |||||  
1824 TTATGCAAGGTTGCATTTTCTCGCAGCAAGTTGTTAGAGCAAAA 1870

## RESULT 12

US-10-425-114-8721  
; Sequence 8721, Application US/10425114  
; Publication No. US20040034888A1  
; GENERAL INFORMATION:  
; APPLICANT: Liu, Jingdong  
; APPLICANT: Zhou Yihua  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Screen, Steven E.  
; APPLICANT: Tabaka, Jack E.  
; APPLICANT: Cao, Yongwei  
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(5313)B  
; CURRENT APPLICATION NUMBER: US/10/425,114  
; NUMBER OF SEQ ID NOS: 2003-04-28  
; SEQ ID NO 8721  
; LENGTH: 1654  
; TYPE: DNA  
; ORGANISM: Glycine max  
; FEATURE:  
; OTHER INFORMATION: Clone ID: 700789722\_FLI  
US-10-425-114-8721

Query Match 7.6%; Score 523.8; DB 17; Length 1654;  
Best Local Similarity 66.0%; Pred. No. 4.9e-125;  
Matches 806; Conservative 0; Mismatches 382; Indels 33; Gaps 2;

QY 5470 TGGAGCTATACCCAGTGTCTGAGTCCATCCAAAATTTCTTTGGCCAGAGCTTTGCCAAC 5529  
Db 1 TAGAATTGTACCCAGTGTGGAGTCCATACAAAATATCTCTGGCCCGGCTCTGCAAGC 60  
QY 5530 TCGATCAAGGAACACTGTATGAATTTACACTACCACTGATTTAGCTTTGGAAAGGTATTTT 5589  
Db 61 TAGACCAAGAACATTTGTAGCTGTCAATACCAGCTGATTTACATTTTGGAAAGGCTTCT 120  
QY 5590 GCACAAAGAGTAGACCAATTTGAATGATGTCCAAATGAGAGGAGAGTGCAGACACTTTG 5649  
Db 121 GTACTAAAGACAGCCAAATTTGCAATGCTTCCCAATGAGAGGGGAATGCGACACTTTG 180  
QY 5650 CAGTGTCTTGTAGTCCAGACTGTTCTTTACCGGCACAGAGGAGGAGCTTTAAACAA 5709  
Db 181 CAAGTGTCTTTGCAAGTCAAGGCTCGCCCTGCCAGGATCAGACAGAGATAGTATGTTA 240  
QY 5710 GTGCAACTATTCCGGTCCCTCCGAGTCTTCTCTCTGTAGCCATCCGATGATAGAAC 5769  
Db 241 TCACAACTGGAAACAATGCAACTGAGCAGAAACCCATCACTAGTCATCAATCAGCTGCCCT 300  
QY 5770 TACCTCTTCCGTTGGAGAAATCCCTTAGC-----AA 5799  
Db 301 TGCTTCTCCCTGAAATATAACCAAGCAAGACTTCAACAAACAGAGTGAATCAGGCAAC 360  
QY 5800 GTGAGCAACCATCGAATAGAGAAACTGTGTAACCAATAATTGAAGAGCCGCGCTCGCCCG 5859  
Db 361 TAGAAGCAAAATCTGAAATCAACATCAGCCAAACCTATTATTGAAGAGCCAGCAACTCCAG 420

QY 5860 GGCAAGAGTGCACCTGAATAAACCGAGAGTGATATTTGAAGATGCTTTACTACAAATGAGGACC 5919  
Db 421 AGCCAGAAATGCTCCCAAGTATCCGAAAATGATATAGAGGATAC---CTTCAATGAGGAAT 477  
QY 5920 CTGACGAGATCCCAACAAATAAACTCAACATTTGAACAGTTTGAATGACTCTACGGGAAC 5979  
Db 478 CATGTGAATTTCCCAACCAATCAACTAGACATAGAAAGAGTTCACTTTGAACCTTACAAAACT 537  
QY 5980 ACATGGAAGAAAACATGGAGCTCCAAGAGGTGACATGTCCAAGGCTTTGGTTGCTTTGC 6039  
Db 538 ATATGCAAGAAAACATGGAACTTCAAGAAAGGTGAAATGTCAAGGGCTTTGGTTGCTCTAC 597  
QY 6040 ATCCAAACACTACTTCTTATTCCTCAACTCCCAAACTTAAGAAACATTTAGCGCTCTCAGGACAG 6099  
Db 598 ATCCAGGTGCTGCATGCAATTCCTACACCAAGCTGAAGAAATGTGAGCCGGTTGCGAAACAG 657  
QY 6100 AGCACCAGTGTACGAGCTCCAGATTACACATCTCTCTTGTGATGGTATGATATAAACAG 6159  
Db 658 AGCATTATGTTTATGAACCTCCCTGATTCACATCCCTTCTGAAATGGGTGGAAACAGCCAG 717  
QY 6160 AACCAGATGATCCAAGTCTTTATCTTTAGCTATATGGACACACAGGTGAAACAGCGAAT 6219  
Db 718 AACCTGATGATCCAGGCAAAATACCTTCTAGCTATATGGACTCCAGGGGAGACACAGATT 777  
QY 6220 CGGCACAAACCGCTGAAACAGAGTGTGGAGGAAAGCGTCTGCCAAAATGTGCTTTGACG 6279  
Db 778 CTATACAGCACCAACAGAAAGCAATGCAGCTCTCAGGAATGTGGCCGGCTCTGTAAATGAGA 837  
QY 6280 AGACTTCTTCTGAGTGTAAACAGTCTGAGGGAAGCAAACTCACAGACAGTTTCGAGGAACCTC 6339  
Db 838 ATGAATGTTTTCATGCAACAGATTTCCGTGCAAGCAAGTTTACAGATAGTTTCGAGGGACAC 897  
QY 6340 TTCTGATACCTTTGTCGAGCTGCCATGAGAGAGAGTTTTCGCTCAACGGGACATATTTC 6399  
Db 898 TCCTGATACCATGTGCAACAGCTATGAGAGGGAGCTTTCCGCTAAATGGCACCTTATTTTC 957  
QY 6400 AAGTCAACAGAGTTATTTGCAGACCCAGAGTCCAGTCTCAAAACCCATCGATGTTCCCTAGAG 6459  
Db 958 AAGTCAACAGAGTCTTTGCGACAAATGACTCAAGTCTTAACCCAAATAGTGTTCCTCCGAA 1017  
QY 6460 ATTGGATATGGATCTCCCAAGAGGACTCTTTTACTTCGGAACATCAGTAACATCAATAT 6519  
Db 1018 GTTGGATCTGAAACCTTTGATAGGCAACAGTGTATTTGGAACCTCCATACCATCTATAT 1077  
QY 6520 TCAGAGTCTTTCAACGGAGCAGATACAGTTCTGCTTTTGGAAAGGATTCGTATGTGTC 6579  
Db 1078 TCAAAGTTTTATCAACAGAGAAATTCACAATGCTTTTGGAGAGGATATGTCTGCGTGC 1137  
QY 6580 GTGGATTGCAACAGAGACAAAGAGCACCAGCTCCATTAATGGCAAGGTTGCAATTTTCCTG 6639  
Db 1138 GTGGATTTGACCGGGAAGAAAGCGAGACCCCGACCTCTGTGTGGCTAGACTACACTTCCCGG 1197  
QY 6640 CGAGCAAAATTGAAGAACAA 6660  
Db 1198 TTAGCAGGTGCTCTTAAGAATA 1218

## RESULT 13

US-10-424-599-28644  
; Sequence 28644, Application US/10424599  
; Publication No. US20040031072A1  
; GENERAL INFORMATION:  
; APPLICANT: La Rosa Thomas J  
; APPLICANT: Kovalic David K  
; APPLICANT: Zhou Yihua  
; APPLICANT: Cao Yongwei  
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53223)B  
; CURRENT APPLICATION NUMBER: US/10/424,599  
; CURRENT FILING DATE: 2003-04-28  
; NUMBER OF SEQ ID NOS: 285684



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; SEQ ID NO 28644
; LENGTH: 1696
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_125868C.1
US-10-424-599-28644

Query Match          7.6%; Score 523.8; DB 17; Length 1696;
Best Local Similarity 66.0%; Pred. No. 5e-125;
Matches 806; Conservative 0; Mismatches 382; Indels 33; Gaps 2;

QY 5470 TGGAGCTATACCCAGTGTCCAGTCCATCCAAAATTTCTTTGGCCAAAGACTTTGCAAC 5529
Db 1 TAGAATTTGACCCAGTGTGGAGTCCATACAAAATATCTCTGGCCCGCTCTGCAAGC 60

QY 5530 TCGATCAACGAACACTGTATGAATTACACTACCAACTGATTACGTTTGGAAAGGTATTTT 5589
Db 61 TAGACCAAGAACATTTGTATGAGCTGCATTACCACTGATTACATTTGGAAAGGTCTTCT 120

QY 5590 GCACAAAGAGTAGACCAAAATTTGAATGATGTCCAATGAGAGGAGTGCAGACACTTTG 5649
Db 121 GTACTAAAAGCAAGCAAAATTTGCAATGCTTGCCCAATGAGAGGGGAATGCAGACACTTTG 180

QY 5650 CCAGTGCTTATGCTAGTCAAGACTGTTTACCGGCACCAGAGAGGAGCTTTAAACA 5709
Db 181 CAAGTGCTTTTGCAGAGTCAAGGCTCGCCCTGCCAGGATCAGAGCAGAGAGATAGTTA 240

QY 5710 GTGCAACTATTCCCGTCCCTCCGAGTCTTCTCTCTGTAGCCATCCGATGATAGAAC 5769
Db 241 TCACAACTGGAAACAATGCACTGAGCAGAACCCATCACTAGTCATCACTGAGCTGCCCT 300

QY 5770 TACCTCTTCCGTTGGAGAAATCCCTPAGC-----AA 5799
Db 301 TGCTTCTCTCCGAAAAATATAACCAAGCAGAACTTCAACAAACAGAAAGTGATCAGGCAAC 360

QY 5800 GTGGAGCACCATCGAATAGAGAAACTGTGAACCAATATTTGAAGAGCGGCTCGCCG 5859
Db 361 TAGAAGCAAAATCTGAAATCAACATCAACCACTTATTTGAAGAGCGCACTCCAG 420

QY 5860 GCGAAGAGTGCACTGAAATTAACCGAGAGTGATATTGAAGATGCTTACTACATAGAGACC 5919
Db 421 AGCCAGATGCTCCCAAGTATCCGAAATGATATAGAGGATAC----CTTCAATGAGGAT 477

QY 5920 CTGACGAGATCCCAACAAATAAACTCAACATTTGAACAGTTTGAATGACTCTACGGGAAC 5979
Db 478 CATGTGAATTTCCCACTCAACATAGACATAGAGAGTTCACTTTGAATTTACAAACT 537

QY 5980 ACATGGAAAGAACATGAGCTCCGAAGAGTGATGCACTCCAGGCTTTGGTTGCTTTC 6039
Db 538 ATATGCAAGAAACATGGAACCTTCAAGAAAGGTGAATGTCAAGGCCCTGGTTGCTCTAC 597

QY 6040 ATCCAAACACTACTTCTATTCCAACTCCCAACTAAAGAACTTAGCCGTCTCAGGACAG 6099
Db 598 ATCCAGGTGTCATGCAATTTCTACCCCAAGCTGAAGATGTGAGCCGTTGCAACAG 657

QY 6100 AGCAACCAAGTGTACGAGCTCCAGATTCACATCGTCTCTCTTGAATGATGAATAAAGAG 6159
Db 658 AGCATATTATTTATGAATCTCCCTGATTACATCCCTTCTGAATGGGTGAACAGCGAG 717

QY 6160 AACCAAGATGATCCAAAGTCTTATCTCTTAGCTATATGACACAGGATGAACAGGAAAT 6219
Db 718 AACCTGATGATCCAGGCAAAATACCTTCTAGCTTATATGGAATCTCCAGGGGAGACAGAT 777

QY 6220 CGGCACAAACCGCTCAACAGAGTGTGGAGGAAAGCGTCTGGCAAAATGTCTTTGAGC 6279
Db 778 CTATACAGCCCAAGAAAGCAATGCACTCTCAGGAATGTGGCCGGCTCTGTAAATGAGA 837

QY 6280 AGACTTGTCTGAGGTAAACAGTCTGAGGGAAGCAAACTCACAGACAGTTCGAGGAATC 6339
Db 838 ATGAATGTTTTTCATGCAACAGTTTCCGTTGAAGCAAGTTTCACAGATAGTTTCGAGGAC 897

QY 6340 TTCTGATACCTTGTGCGACTGCCATGAGAGGAAAGTTTCCGCTCAACGGGACATATTTCC 6399
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Db 898 TCCTGATACCAATGTGCAACAGCTATGAGAGGAGCTTTCCGCTAAATAGCCACTATTTTC 957
QY 6400 AAGTCAACGAGTATTTTGCAGACCAAGTCCAGTCTCAAAACCCATCGATGTTCTCTAGAG 6459
Db 958 AAGTCAACGAGGCTTTTGCAGACCAATGACTCAAGTCTTAAACCCAAATAGTGTTCCTCCGAA 1017
QY 6460 ATTGATATGGATCTCCCAAGAGGAGTGTCTTCTTGGAAAGGATTCGTATGTGTCC 6519
Db 1018 GTTGGATCTGGAACCTTGTATAGGCGAACAGTGTATTTTGGAACTTCCATACCATCTATAT 1077
QY 6520 TCAGAGGTCTTTCAACGAGCAGACATACAGTGTCTGTCTTTTGGAAAGGATTCGTATGTGTCC 6579
Db 1078 TCAAGGTTTATCAACAGCAGAAATTCACAAATGCTTTTGGAGAGATATGTCTGGTGC 1137
QY 6580 GTGGATTCGAACAGAGCAAGAGCAGCCGCTCCATTAATGSCAAAGTTTGCATTTTCTCTG 6639
Db 1138 GTGGATTTGACGGGAAAGAGCAGCCCGACCTCTGTGTGGCTAGACTTACACTTCCCGG 1197
QY 6640 CGAGCAATTCGAAGCAACA 6660
Db 1198 TTAGCAGGTTGCTTAAGAATA 1218

RESULT 14
US-09-840-743-44
; Sequence 44, Application US/09840743
; Publication No. US20030135890A1
; GENERAL INFORMATION:
; APPLICANT: Fischer, Robert L.
; APPLICANT: Choi, Yeonhee
; APPLICANT: Hannon, Mike
; APPLICANT: Okumuro, Jack Kishiro
; APPLICANT: Tatarinova, Tatiana Valerievna
; APPLICANT: The Regents of the University of California
; TITLE OF INVENTION: Nucleic Acids That Control Plant Development
; FILE REFERENCE: 023070-099910US
; CURRENT APPLICATION NUMBER: US/09/840,743
; PRIOR FILING DATE: 2001-04-23
; PRIOR APPLICATION NUMBER: US 09/553,690
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 44
; TYPE: DNA
; LENGTH: 758
; ORGANISM: Lycopersicon esculentum
; FEATURE:
; OTHER INFORMATION: tomato 12624037 EST469495
US-09-840-743-44

Query Match          6.0%; Score 411.8; DB 10; Length 758;
Best Local Similarity 72.9%; Pred. No. 4.7e-96;
Matches 530; Conservative 0; Mismatches 197; Indels 0; Gaps 0;

QY 5062 TCAGAAAGATGTGGAGGGGAATGAAGGAGACAGAAACGAAACAAAACAATATGATTT 5121
Db 4 TGAGAAAGAAAGTCCAAATCAAAAGAGTGGGAAAAAGAAAGAAAGCAAGGATGCAATGGACT 63

QY 5122 CCATAGACTATGAACCATAGACGTGCTAGTATCAGCGAGATTTCTCGAGCTATCAGG 5181
Db 64 CATTGAACCTACGAAGCAGTCAAGATGCAGCAGTTAAAGAAATTTCTGATGCTATTAAGG 123

QY 5182 AAAGAGGATGAATTAACATGTTGGCCGTACCAATTAAGGATTTCTAGAACCGGATAGTTA 5241
Db 124 AACGAGGATGAACCAACATGCTGCGAGAGCGAATTAAGGACTTCTCGATAGACTGGTCA 183

QY 5242 AAGATCATGTGGTATCGACCTTGAATGGTTGAGAGAAATCTCTCTGATAAAGCAAGG 5301
Db 184 GGGATCATGGAAGTATTGACCTAGAAATGGTTGAGAGATGTGGCCCGCCAGACAAAGGAAAG 243

QY 5302 ACTATCTTTCAGCATAGAGTCTGGGTTTGAAGAGTGTGAATGCGTGCAGCTCTTAA 5361
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Db	244	AGTATCTTTTGAGTATTCTGGTGAGCTGGGTCTGAAAAGTGTAGAAATGTGTGCGGTATTA	303
Qy	5362	CACCTCCAAATCTTTGCTTTCCCTCTGCACACGAATGTTGGAAGATAGCAGTTAGGATGG	5421
Db	304	CACCTTCATAACCTTGCCTTTTCCAGTTGCACACAANATGTTGGACGNATAGCTGTGAGATTAG	363
Qy	5422	GATGGGTGCCTCTACAAACCCCTACTCGAATCACTTCAGTTACACCTCCTCGAGCTATACC	5481
Db	364	GATGGGTTCCTCTCCAAACCACTTCTCTGAGTCCCTGCGAGTTGCATCTCTTTGAACTGTATC	423
Qy	5482	CAGTGTCTGAGTCCATCCAAAATTTCTTTGGCCCAAGACTTTGCAAACTCGATCAAGAA	5541
Db	424	CAATTCCTGGAGTCAATTCAGNAGTATCTCTGGCCACGACTCTCGAGCTCGATCAGAGAA	483
Qy	5542	CACGTGTATGAATTACACTACAACACTGATTAAGTTTGGAAAAGTATTTTGCAAAAAGATA	5601
Db	484	CACGTGTATGAGTTGCACTACCAATGATTAACCTTTGGAAAAGTTTCTGCACCAAAAGTA	543
Qy	5602	GACCAAAATCTGAATGCATGTCCAAATGAGAGGAGATGCACACACTTTGCCAGTGCCTTATG	5661
Db	544	AGCCTAACTGTAATGCATGCCCCACTGNAGACTGAATGCACACACTTTGCTAGTGCCTTACG	603
Qy	5662	CTAGTGCAGAAGCTTGCTTTTACGGCCACGAGAGGAGGAGCTTTAACAAGTGCAACTATTTC	5721
Db	604	CNAGTGCAGAAGCTTGCCCTTCTCTGGCCAGAGAGGAAGAGTATAGTGGAGTTTCAGCAGTTTC	663
Qy	5722	CGGTCCCTCCGAGTCCCTTTCTCTGTAGCCATCCCGATGATAGAACTACCTCTTCCGT	5781
Db	664	CGATCCCTAGTGAGGGAATGCAGTCCGCCATTCGAAGCCCATGCTATTACCCCCAGAGC	723
Qy	5782	TGGAGAA	5788
Db	724	TGAAGTA	730

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RESULT 15
US-10-425-114-4526
; Sequence 4526, Application US/10425114
; Publication No. US20040034888A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Jingdong
; APPLICANT: Zhou, Yinua
; APPLICANT: Kovalic, David K.
; APPLICANT: Screen, Steven E
; APPLICANT: Tabaska, Jack E
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53313)B
; CURRENT APPLICATION NUMBER: US/10/425,114
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 73128
; SEQ ID NO 4526
; LENGTH: 1543
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Cione ID: 700381361_FLI
US-10-425-114-4526

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Db	130	ATTTGGAAAGGCTTTTTGTACAAAGACGCCAAATTCGAATGCATGCCCAATGAGGAG	189
QY	5633	AGAGTGCAGACACTTTGGCCAGTGCTTATGTGTAGTGCAGACTTGCTCTTACCGGACACAGA	5692
Db	190	TGAGTGCAGCATTTTGCAAGTGCAATTTGCAAGTGCAAGGCTTGCACTTCTCTGCTCCCA	249
QY	5693	GGAGAGGAGCTTAAACAAGTGCACATATTTCGGTCCCTCCCGGTCCTTTCTCTCTGTAGC	5752
Db	250	GGAGGAAGCTTTAGTGAAGTTGAGCAATCCATTTGCTTCCAGAAATAGCAGCATGCAATGC	309
QY	5753	CATCCCGATGATAGAACTPACCTTCTTCGTTGGAGAAATCCCTAGCAAGTGGAGCACCATC	5812
Db	310	TATGAAATTCGACTCACCTTACCTCGCTTGAGGGAGTATCCATTCAAGGGAGTTTCTTCC	369
QY	5813	GAATAGAGAAAACCTGTGAACCAATAATTGAGAGCCGCGCTCCGCCGGGCAAGTGCCAC	5872
Db	370	TAAG-----AACTCAGAGCCNATATCGAGGAGCCTGCAAGTCCAAAGAGAGAAAGACC	423
QY	5873	TGAATAACCGAGAGTGATATTGAAGATGCTTACTACAATGAGGACCCTGACGAGATCCC	5932
Db	424	TCCAGAAACCATGGAATAATGATATTGAAGATTTTATGAAGA-----TGGTGAATCCC	477
QY	5933	AACATATAACTCAACATGGAACAGTTTGGATGACTCTACGGGAAACACAT---GGAAAG	5989
Db	478	AACATTAAGCTTAACATGAGCTTTTGACAAAACCTTGGAGAAATGCAATTAAGAAAG	537
QY	5990	AAACATGGAGCTCCAAGAAGGTGACATGTCCAAGGCTTTGGTTGCTTTGCATCCACAAC	6049
Db	538	CAATAACGAACTCCAGTCTGATGATATTGCAAAAGCATTTGGTTGCTATTAGCACTGAAGC	597
QY	6050	TACTTCTATTCCAACCTCCCAACTTAAGACATTAAGCCGCTCAGACAGCAGACCAAGT	6109
Db	598	AGCTTCGATCTCTACCGAACTTAAGAATGTGTTAGCTTCGAACAGAAACACTATGT	657
QY	6110	GTACGAGCTCCAGATTCACATCGTCTCCTTGAT-----GSPATGGATAAAGAGAAC	6163
Db	658	GTATGAGCTTCCAGATGCATCCACTTTTACAAACAGCTAGGACTTGACCAACGGGAACA	717
QY	6164	AGATGATCCAAAGTCTTATCTTTAGCTATATGGACACAGGTGAACACGGAATTCGGC	6223
Db	718	TGATGATCTTACCCCATACTTATTGGCCATATGGAACACAGATGGAATTAAGGAATAAC	777
QY	6224	ACAACCGCTGAACAGAGTGTGGAGGGAAGCGTCTGGCAAAATGTGCTTTTGAAGAGAC	6283
Db	778	TAAGACACCAAAACCAATGCTGTGACCTCAAATGGGAGGCGATTATGCAATAATGAAT	837
QY	6284	TTGTTCTGAGTGTAACAGTCTGAGGGAAGCAACTCACAGACAGTTTCGAGGAACCTTCT	6343
Db	838	GTGCCAAATTGCTGCAGAGAAAGAAACCAATCTAGATATGTCAGAGGCACAATCT	897
QY	6344	GATACCTTGTGGACTGCCATGAGAGGAAGTTTTCCGTCAACGGGACATATTTCCAAGT	6403
Db	898	GGTTCCTGTGCAACAGCTATGAGGGGTAGTTTCCCACTTAAACGGCACTTACTTTCAAGT	957
QY	6404	CAACGAGTTATTTTGCAGACACAGAGTCCAGTCTCAAAACCATCGATGTTCTTAGAGATTG	6463
Db	958	CAATGAGGTATTGCTGACCAAGATCTAGCAACCAACCAATCCATGTGGAAGGAGAT	1017
QY	6464	GATATGGGATCTCCAAAGAGGACTGTTTATTCGGAAACATCAGTAACATCAATATTCAAG	6523
Db	1018	GCTATGGAACCTTGAAAGGCGATGCTGTTTTTCGGGACTTCAGTACCCACCATATTCAA	1077
QY	6524	AGGTCCTTCAAACGGAGCAGATACAGTTCTGCTTTTTGGAAAGGATTCGATATGTGCCGTG	6583
Db	1078	AGGTTTAAAGACAGAAGAAATACAAATGCTTCTGGAGGGGATTTGCTGTGTGCGAGG	1137
QY	6584	ATTGGAACAGAGACAAAGAGCACCGGCTCCATTAATGGCAAGGTTGCAATTTCTCGCGAG	6643
Db	1138	ATTTCGACATGGAGCTTAGAGCACCAAGGCTCTGTGCCCCCATTTTGCACATTAAGCAAG	1197

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Job time : 3520 secs

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